

MBL/WHOI



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BRITISH
FRESH-WATER ALGÆ.
VOL. II.

52159

B0 589.3:942

5086
11.2

BRITISH
FRESH-WATER ALGÆ.

EXCLUSIVE OF
DESMIDIEÆ AND DIATOMACEÆ.

BY

M. C. COOKE, M.A., LL.D., A.L.S.,

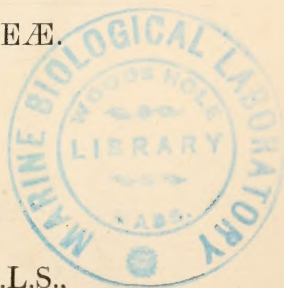
*Author of "Handbook of British Fungi," "Mycographia," "Illustrations
of British Fungi," &c., &c.*

VOL. II. PLATES.

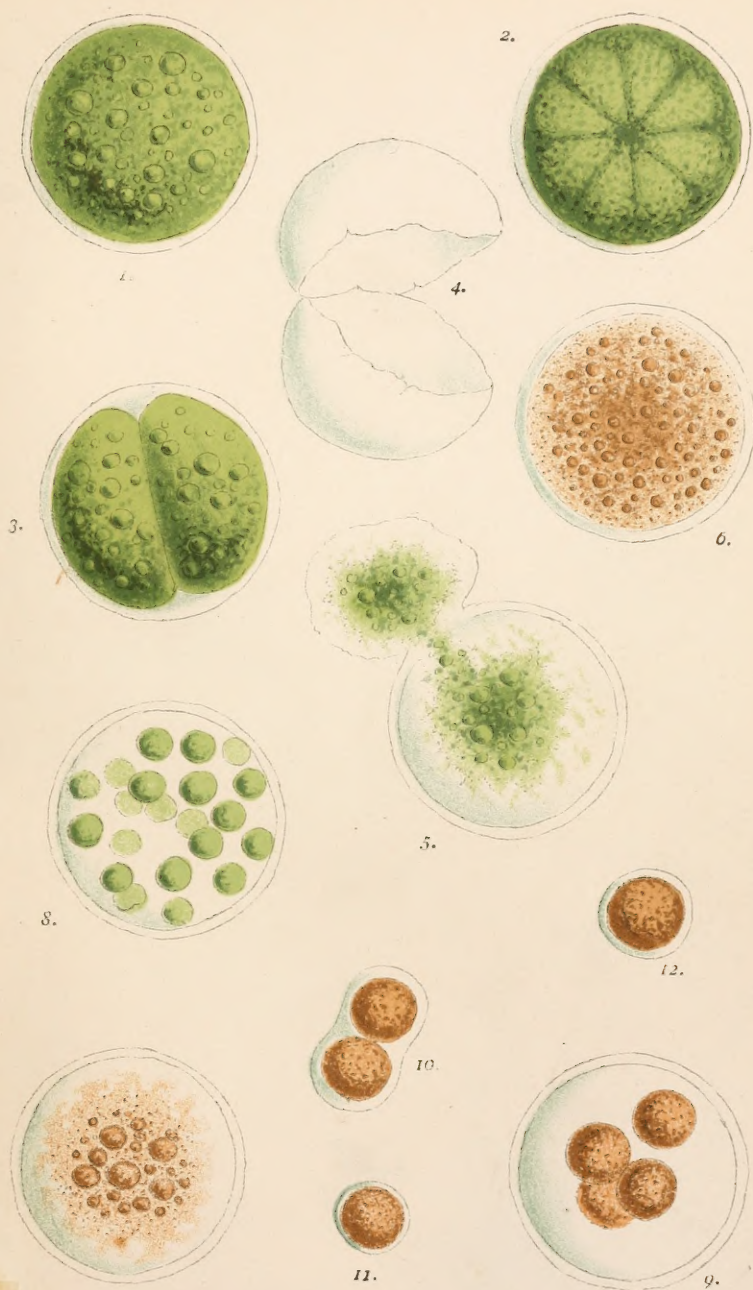
WILLIAMS AND NORGATE,
HENRIETTA STREET, COVENT GARDEN, LONDON;
SOUTH FREDERICK STREET, EDINBURGH.
LEIPZIG: F. A. BROCKHAUS. NEW YORK: WESTERMANN & CO.

1882—1884.

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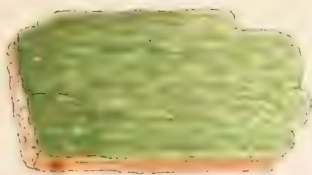




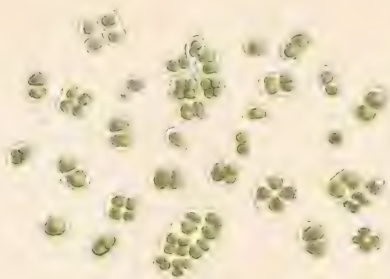
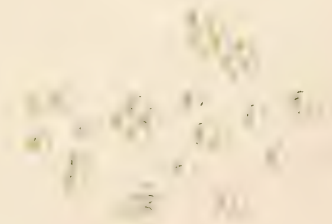
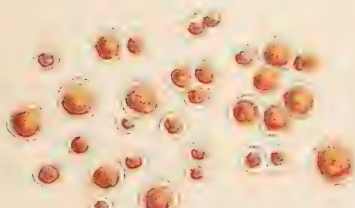
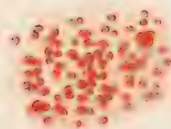


Eremosphæra viridis. (DBy.)





1. a. - n.s.

1. b. $\times 400$.2. $\times 400$.3. $\times 400$.4. $\times 400$.5. $\times 400$.6. $\times 400$.7. $\times 400$.

1. *Pleurococcus vulgaris*. Men.
2. *Pleurococcus angulosus*. Men.
3. *Pleurococcus mucosus*. Kutz.
4. *Pleurococcus Beigelii*. Kuch.
5. *Pleurococcus miniatus*. Kutz.
6. *Pleurococcus roseo-persicinus*. Kutz.





1. x 400.



2. x 400.



3. x 400.



4a.



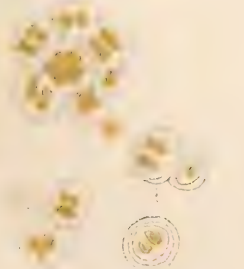
4b.



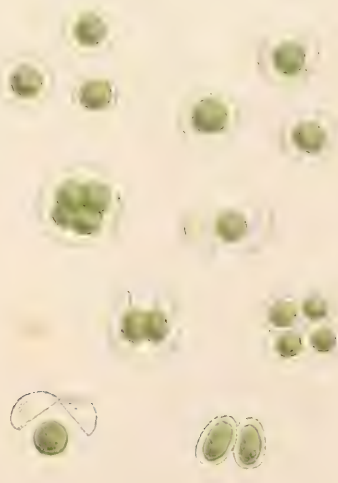
4. b. x 400.



5.



5. x 400.



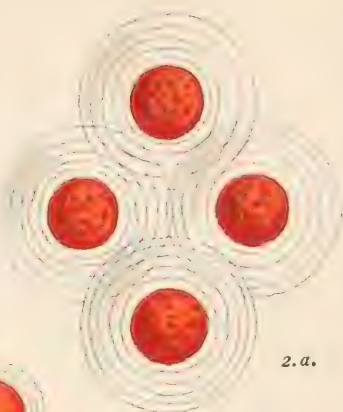
6. x 400.

1. *Gloeocystis ampla*. Kutz.2. *Gloeocystis vesiculosa*. Nag.3. *Gloeocystis botryoides*. Kutz.4. *Gloeocystis adnata*. Huds.5. *Gloeocystis Paroliniana*. Nag.6. *Schizoclamys gelatinosa*. Fr.





1. a.



2. a.



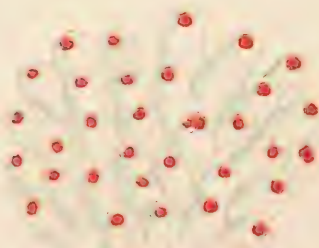
1. b.



2. b.



3. a.



4. a.



3. b.



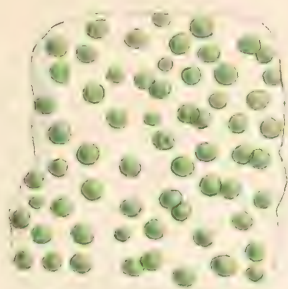
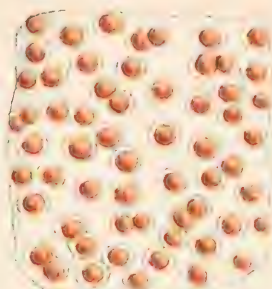
4. b.

1. *Urococcus Hookerianus*, Hass.

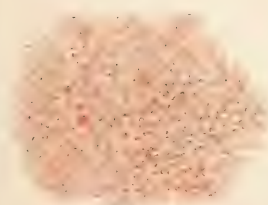
2. *Urococcus insignis* Hass.

3. *Urococcus Allmanni*. Hass.

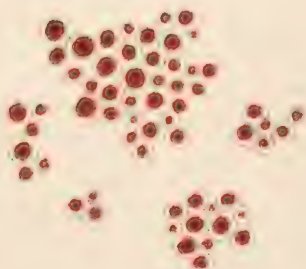
4. *Urococcus cryptophilus*. Hass.

1. $\times 400$.2. $\times 400$.3. a. $\times 400$.3. r. $\times 300$.

4. a. - n.s.

5. a. $\times 400$.5. b. $\times 800$.4. b. $\times 400$.

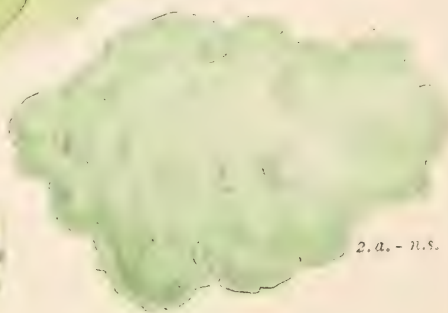
6. a. - n.s.

6. b. $\times 400$.1. *Palmella mucosa*. Kutz.2. *Palmella miniata*. v. *aequalis*. Nog.3. *Palmella hyalina*. Breb.4. *Palmella Mooreana*. Harv.5. *Palmella prodigiosa*. Elor.6. *Porphyridium cruentum*. Ag

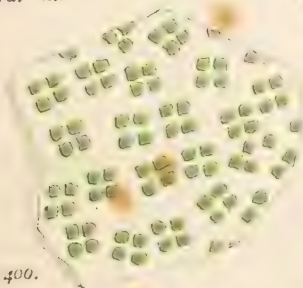




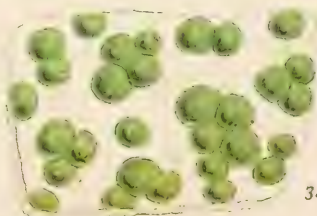
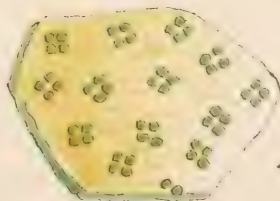
1. a. - n.s.

1. b. $\times 400$.

2. a. - n.s.

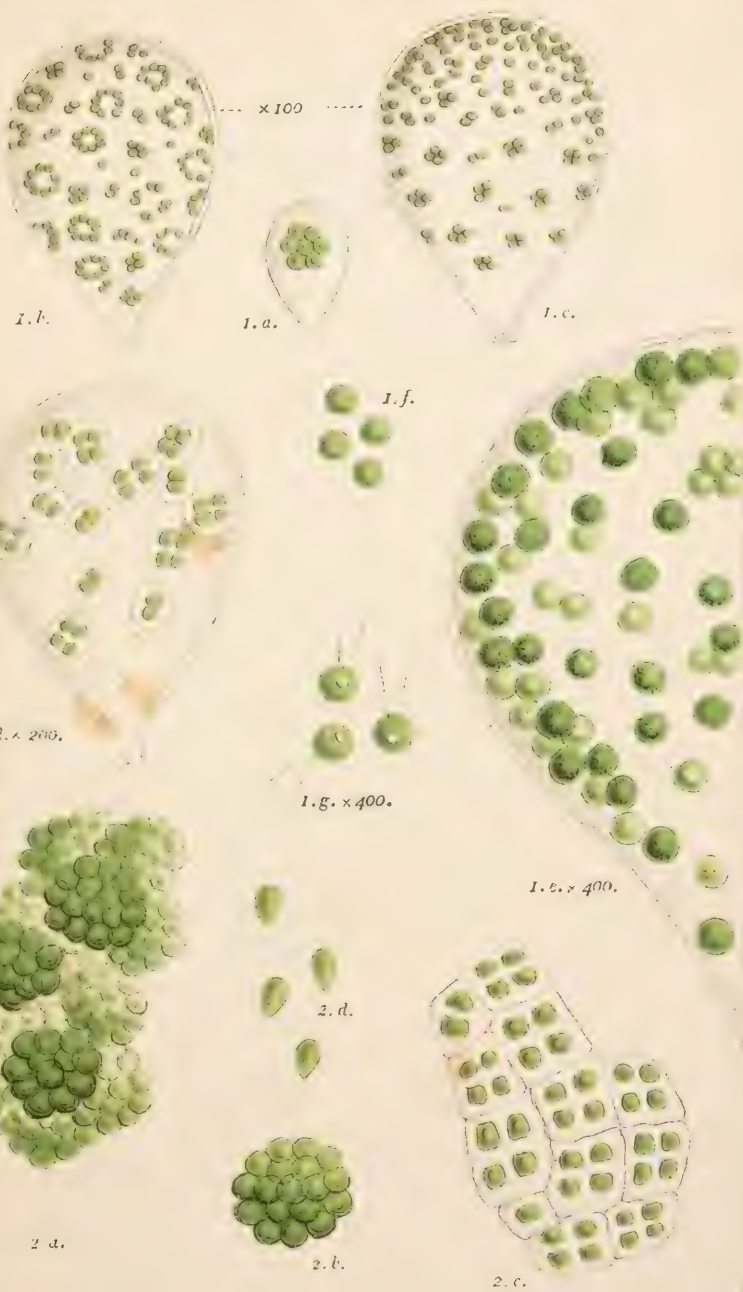
2. b. $\times 400$.

3. a. - n.s.

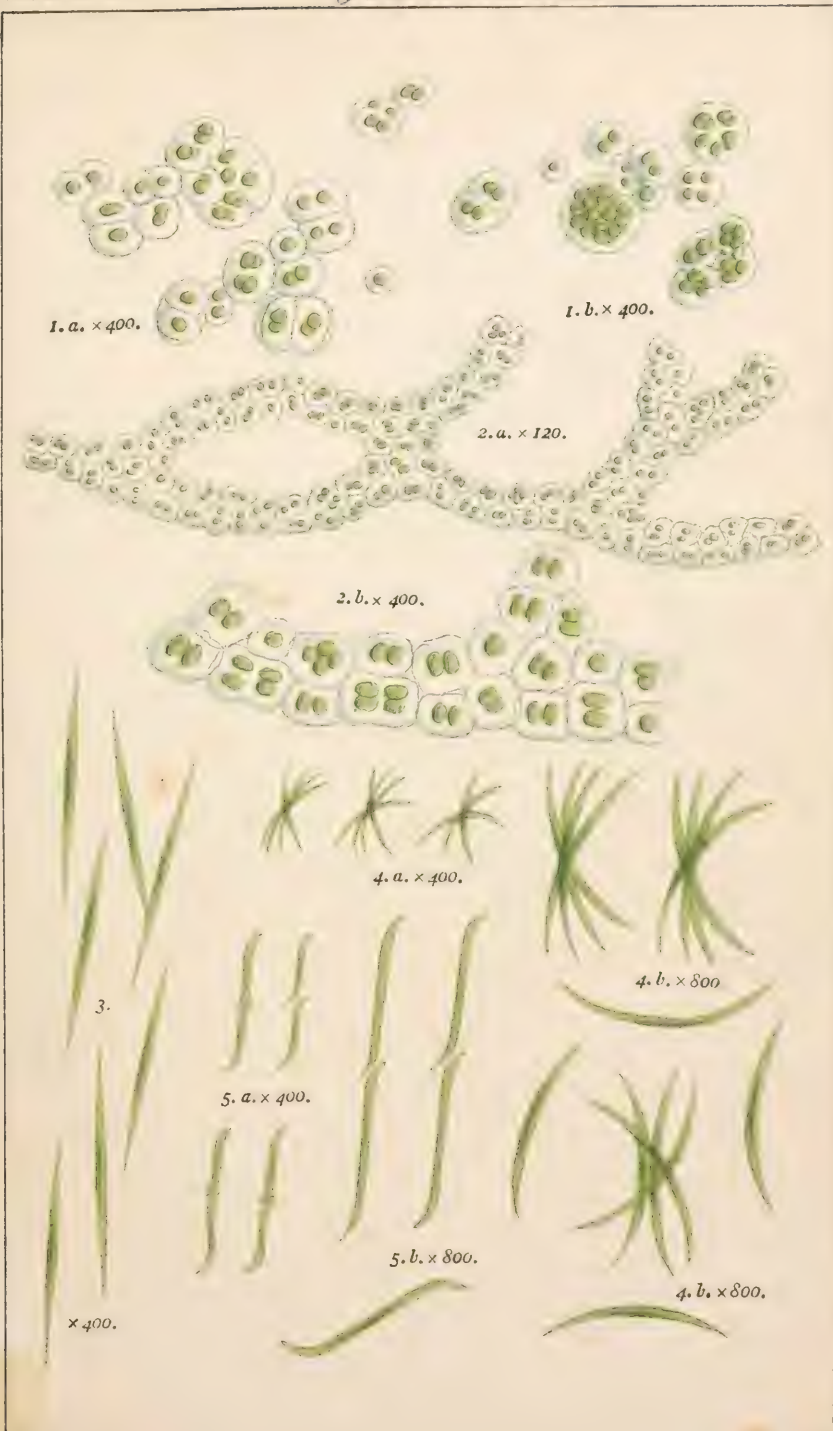
3. b. $\times 400$.4. $\times 400$.

1. *Tetraspora bullosa* Ag. 2. *Tetraspora gelatinosa* Desv.
3. *Tetraspora lubrica* Ag. 4. *Tetraspora flava* Hass.

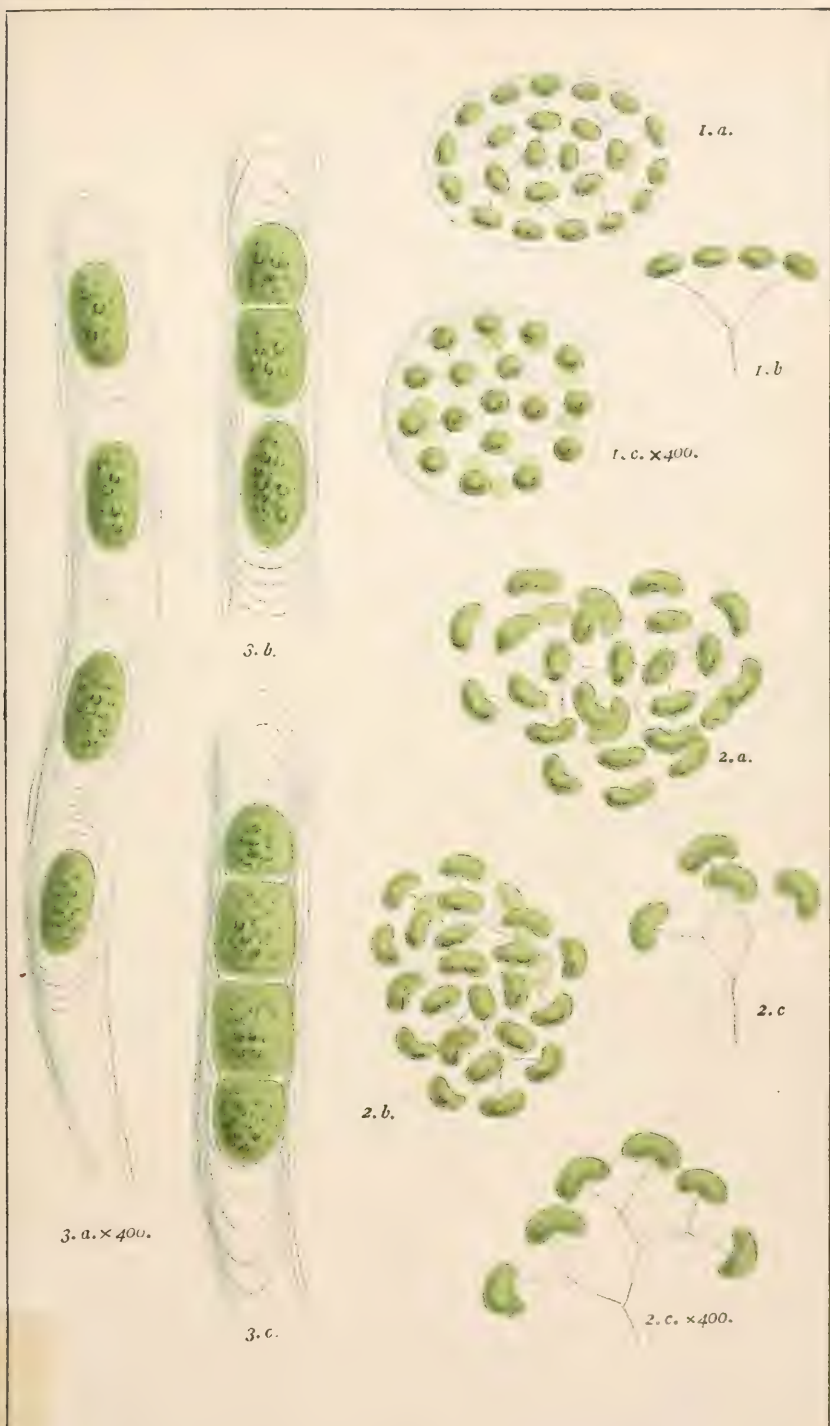


1. *Apicystis Brauniana*. Nag.2. *Botryococcus Braunii*. Kutz.



1. *Glæocystis rupestris*. Lyng.2. *Palmodictyon viride*. Kutz.3. *Rhaphidium aciculare* Br.4. *Rhaphidium falcatum*. Rabh.5. *Rhaphidium duplex*. Kutz.





1. *Dictyosphaerium Ehrenbergianum*. Nag.

2. *Dictyosphaerium reniforme*. Buln.

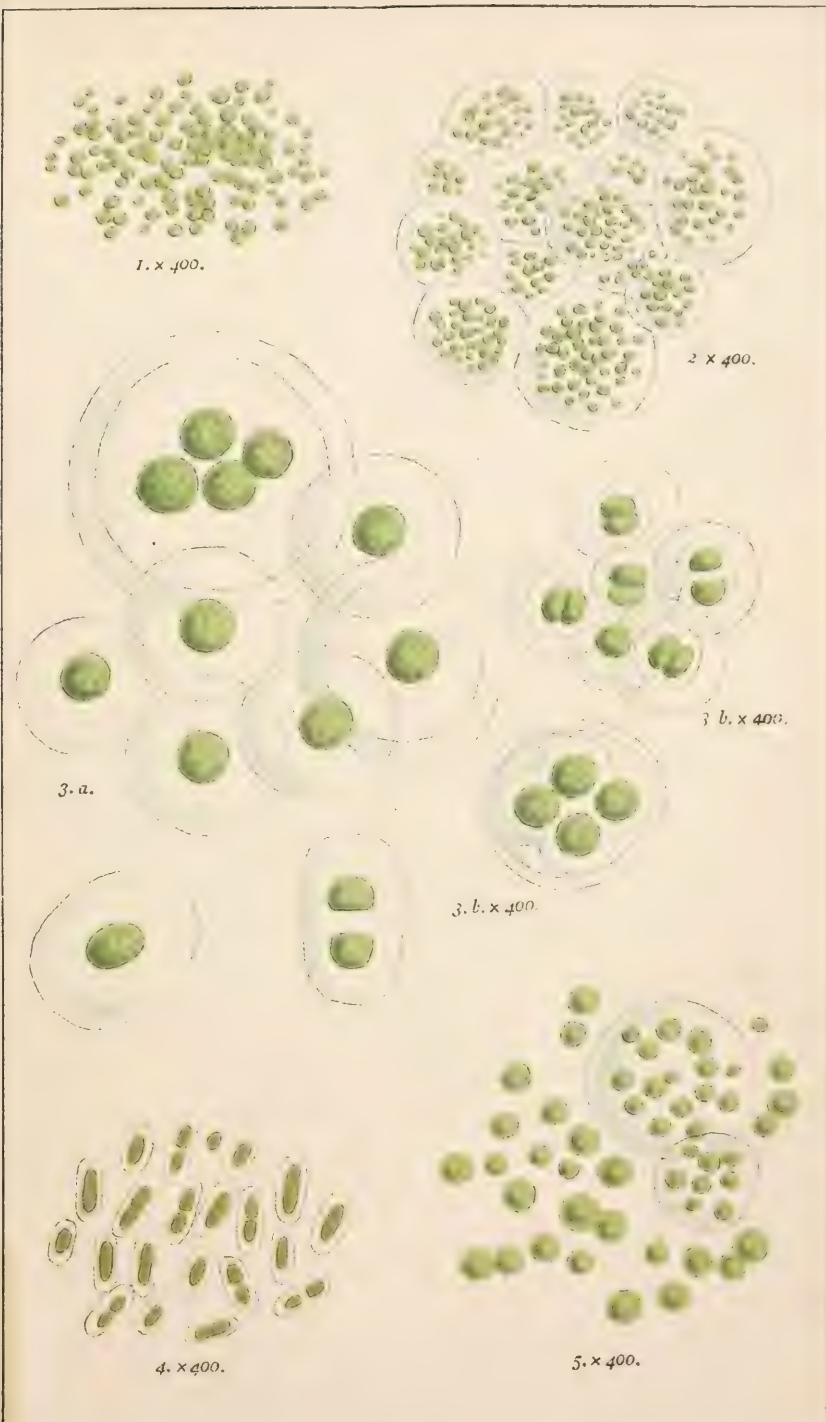
3. *Cyllindrocapsa involuta*. Reinsch.



1. *Hormospora mutabilis*. Breb.2. *Hormospora ramosa*. Thw.3. *Hormospora transversalis*. Breb.4. *Hydrurus penicillatus*. fig.



1. *Nephrocycium Agardhianum*. Nag.3. *Botrydina vulgaris*. Breb.2. *Nephrocycium Naegeli*. Gr.4. *Mischococcus confervicola*. Nag



1. *Protococcus viridis*. Ag.
2. *Chlorococcum frustulosum*. Carm.
3. *Chlorococcum gigas*. Grun.
4. *Chlorococcum murorum*. Grev.
5. *Chlorococcum humicola*. Näg.



- | | |
|---|---|
| 1. <i>Polyedrium gigas</i> . Wittr. | 2. <i>Polyedrium longispinum</i> . Perty. |
| 3. <i>Polyedrium tetrahedricum</i> . Nag. | 4. <i>Polyedrium enorme</i> . O'Bary. |
| 5. <i>Scenedesmus obtusus</i> . Mey. | 6. <i>Scenedesmus acutus</i> . Mey. |
| 7. <i>Scenedesmus antennatus</i> . Breb. | 8. <i>Scenedesmus quadricauda</i> . Breb. |



1. *Hydrodictyon utriculatum*. Roth.

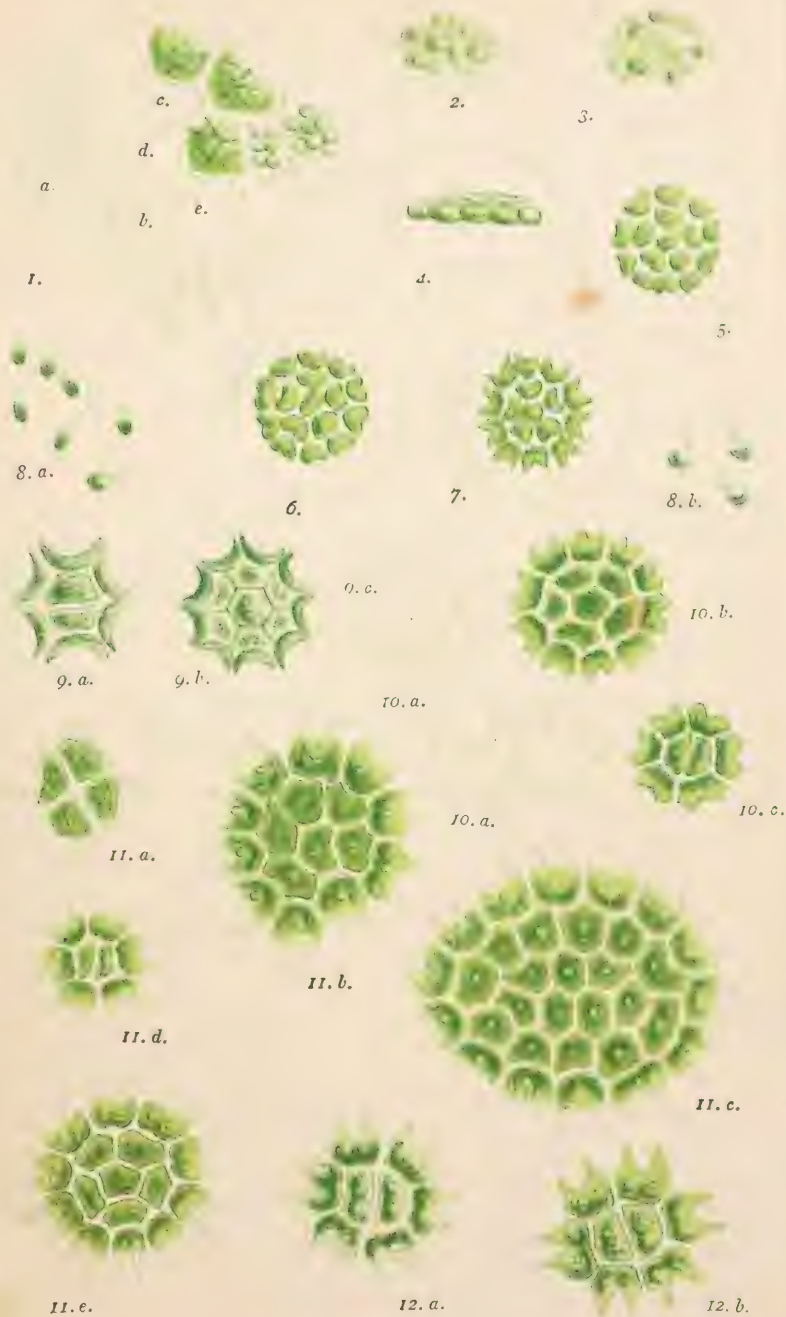
2. *Ophiocytium eschicars*. Eich.





Sciadium arbuscula. Br.





1-7. Stages of development in *Pediasium Boryanum*. Turp.

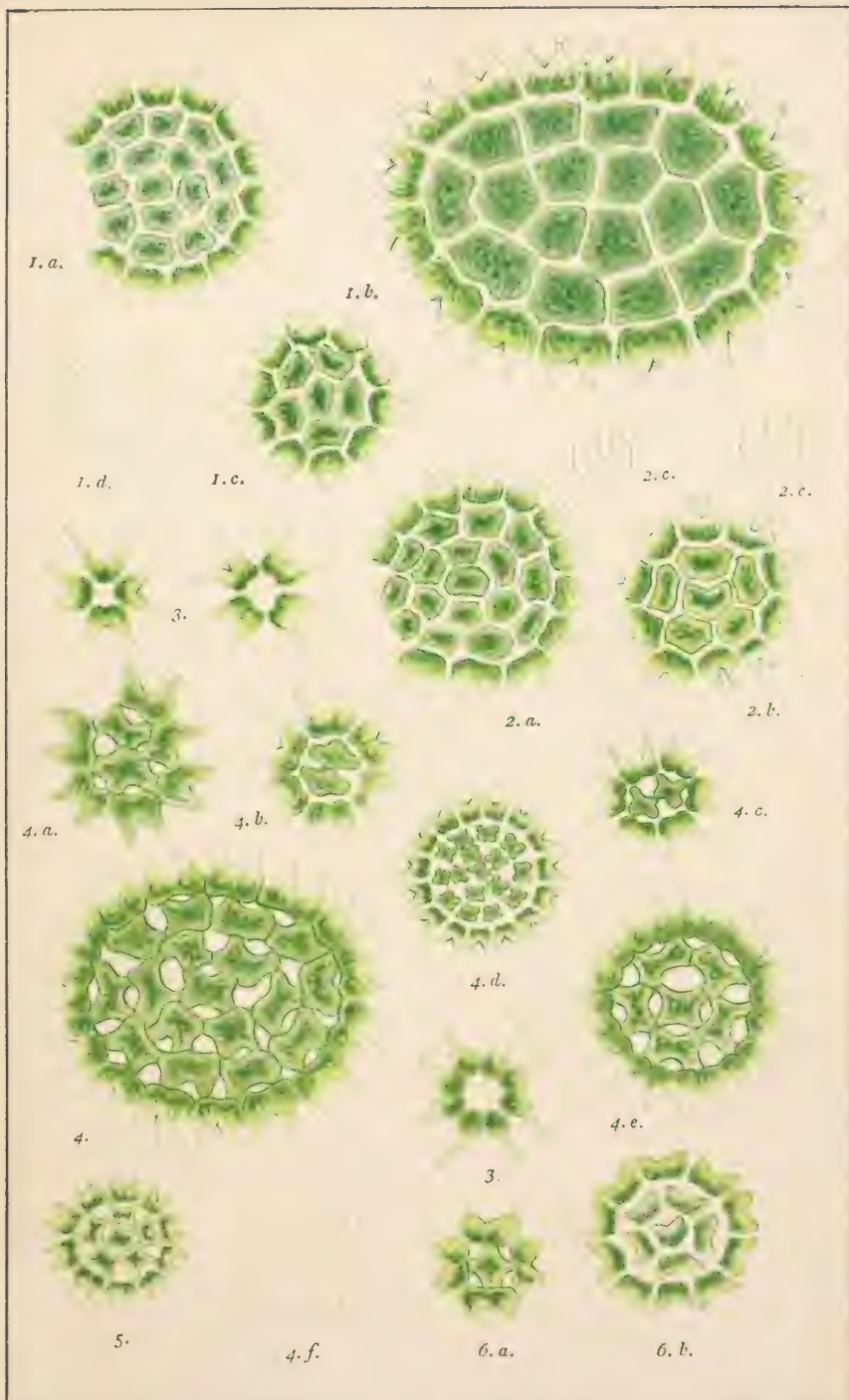
9. *Pediasium Selenaea*. Kutz.

10. *Pediasium angulosum*. Ehrb.

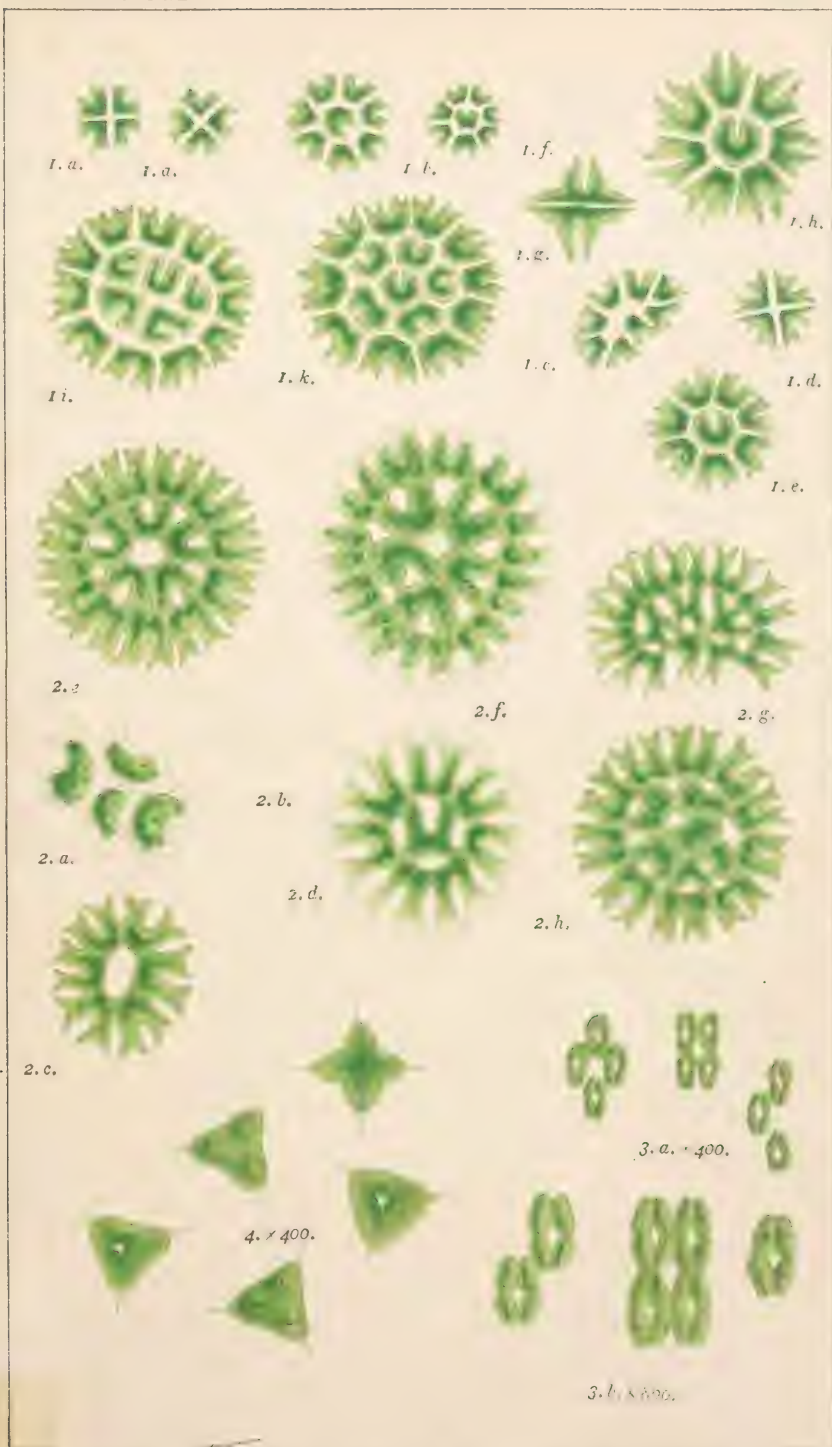
11. *Pediasium Boryanum*. Turp.

12. var. *granulosum*. Br.

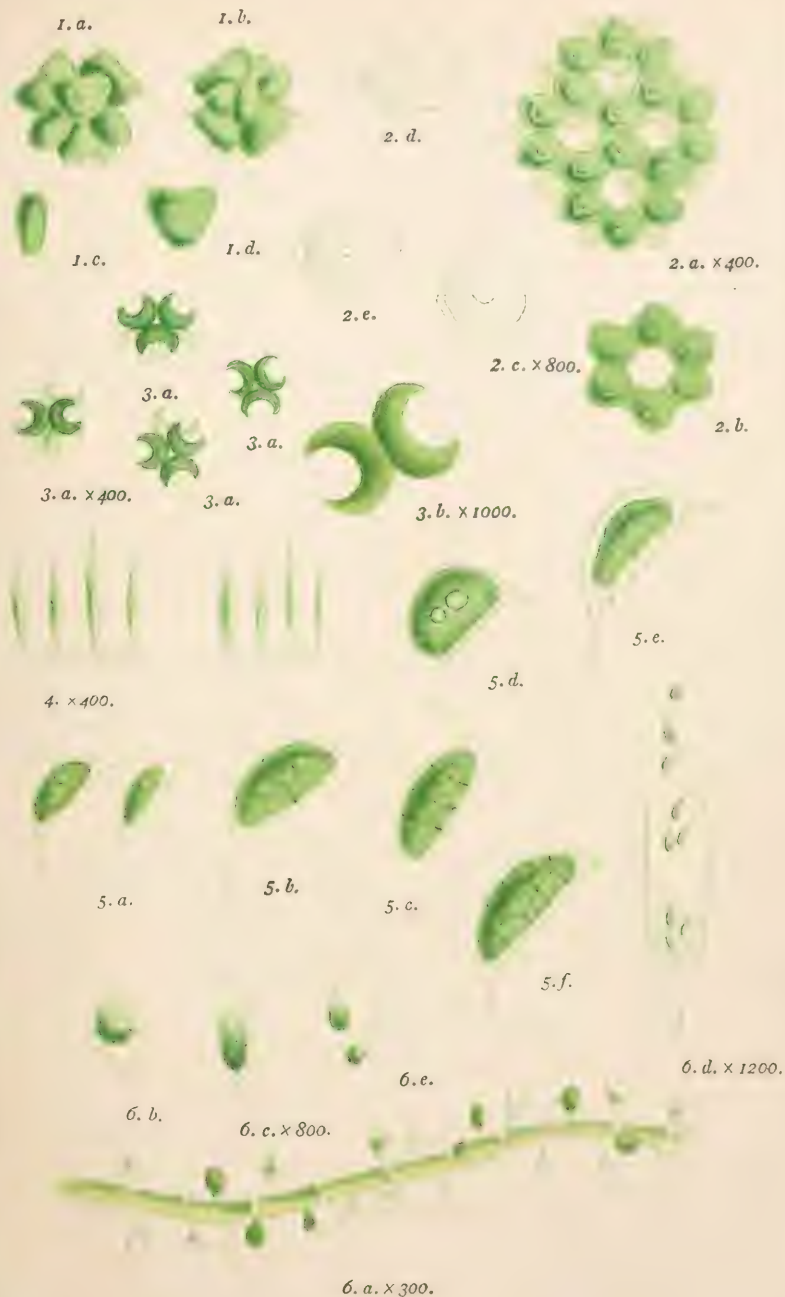




- | | |
|--|---|
| 1. <i>Pediastrum bidentulum</i> . Br. | 2. <i>Pediastrum constrictum</i> . Hass. |
| 3. <i>Pediastrum gracile</i> . Br. | 4. <i>Pediastrum pertusum</i> Kutz. |
| 5. <i>P. pertusum</i> v. <i>clathratum</i> Br. | 6. <i>P. pertusum</i> v. <i>brachylobum</i> . Br. |



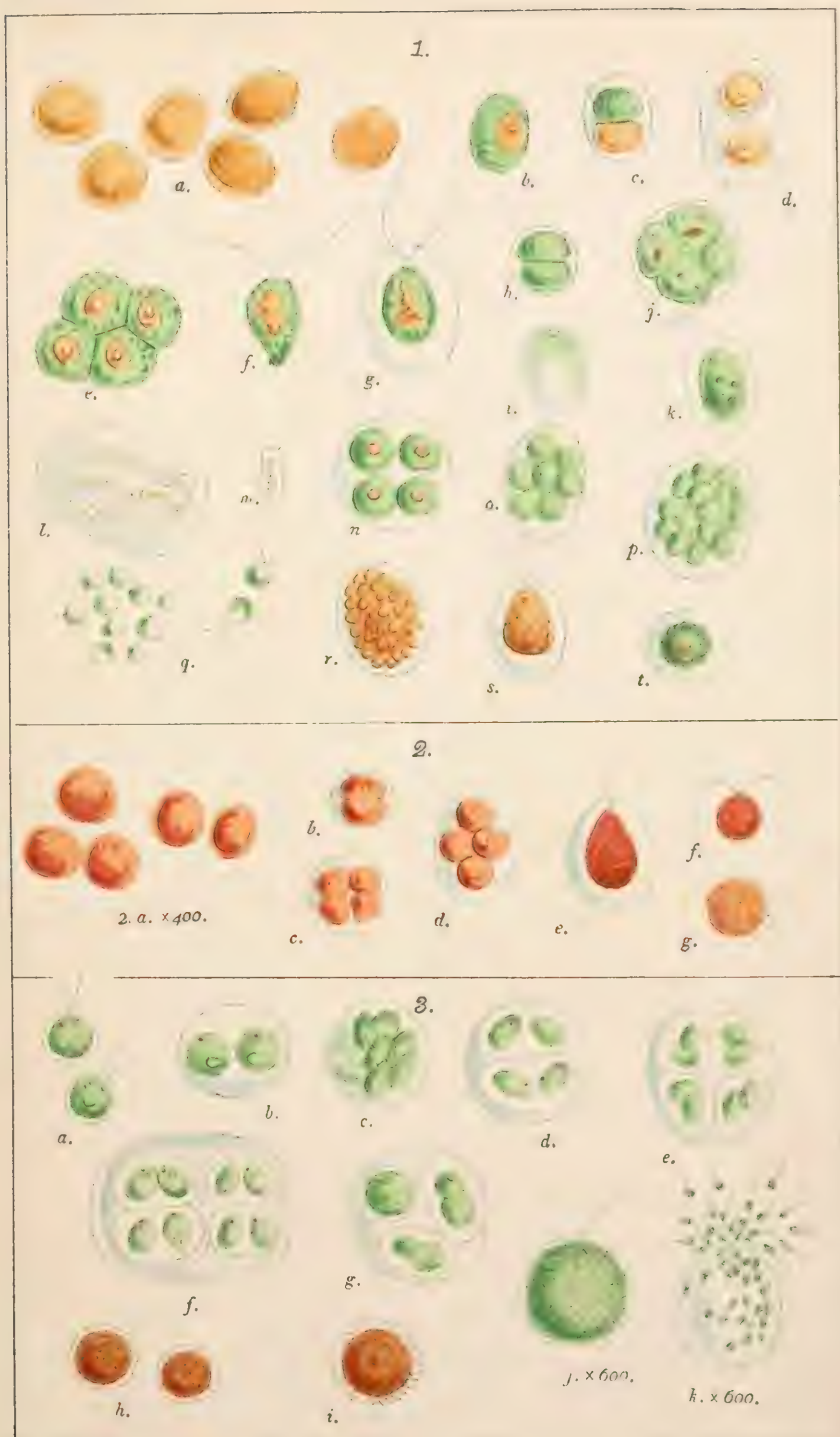
1. *Pediastrum Ehrenbergii*. Corda.
2. *Pediastrum* sp. Ehrb.
3. *Staurogenia rectangularis*. Nag.
4. *Polyedrium tetraedricum*. Nag.



1. *Sorastrum spinulosum*. Nag. 2. *Cœlastrum sphæricum*. Nag.
 3. *Selenastrum Bibraianum*. Reinsch. 4. *Characium tenue*. Herm.
 5. *Characium ornithocephalum*. Br. 6. *Hydriarum heteromorphum*. Reinsch.

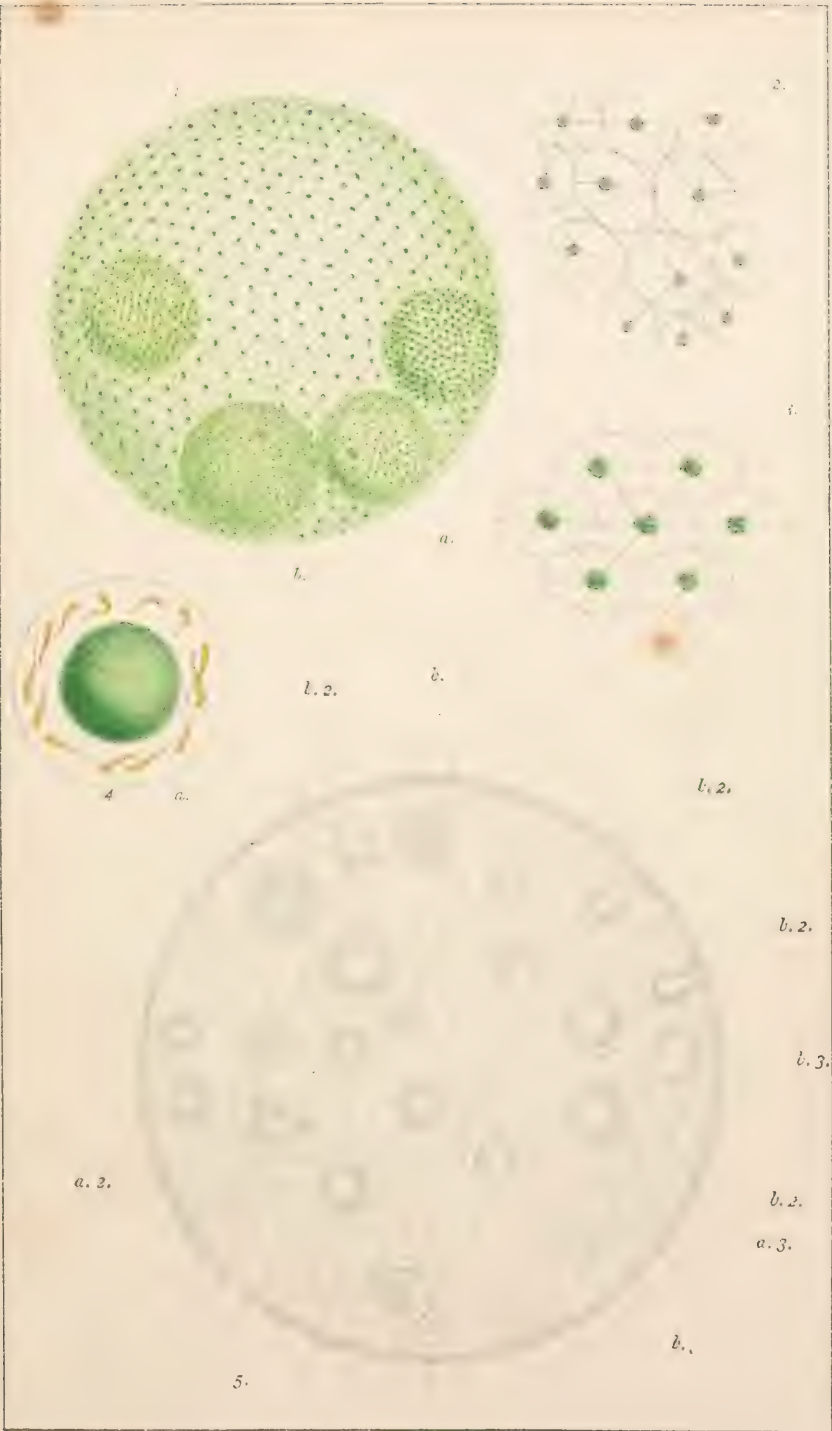


1-8. *Codiolum gregarium*. Br. 9-11. *Characium Sieboldi*. Br.



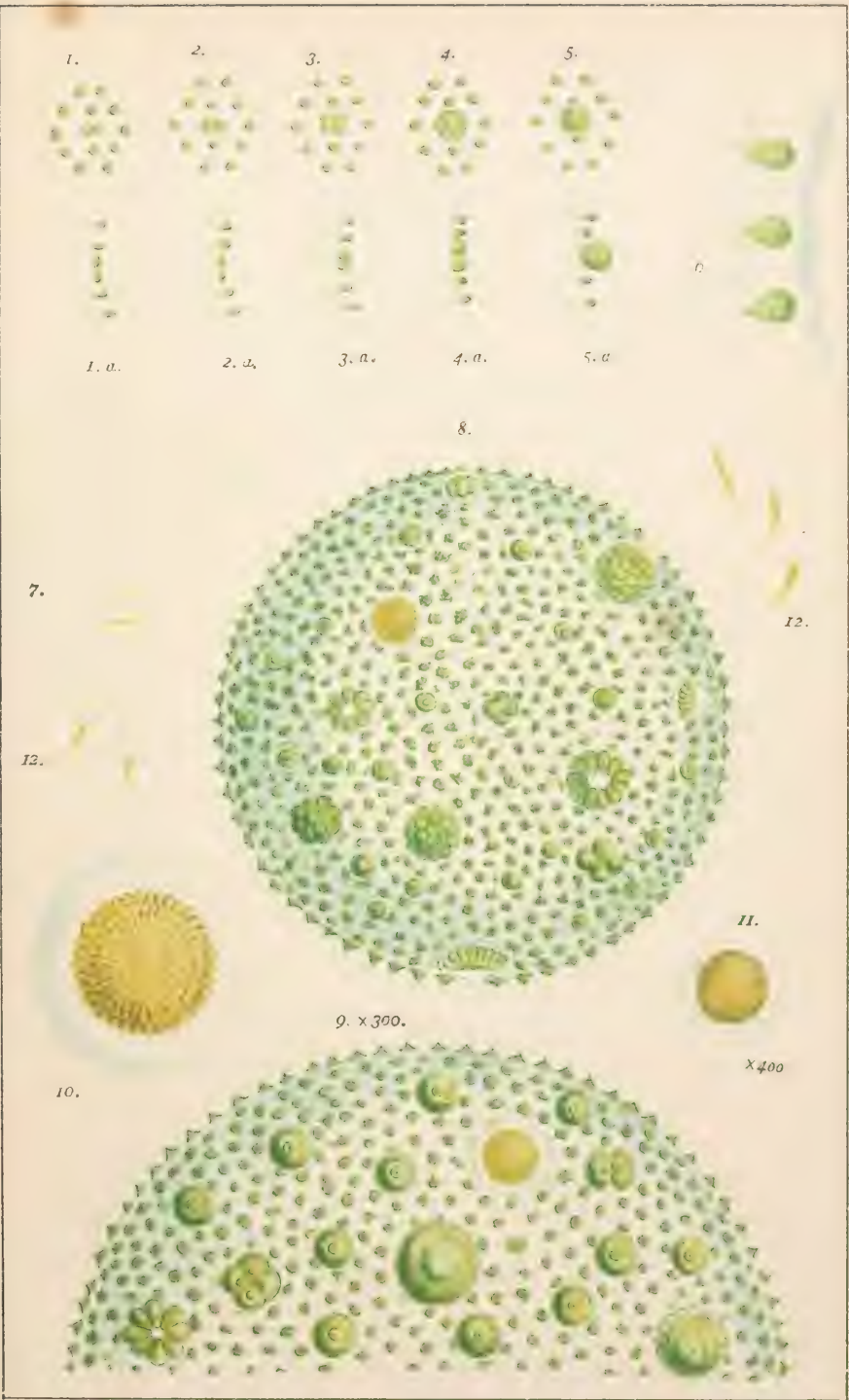
1. *Chlamydococcus pluvialis*. Gr. 2. *Chlamydococcus nivalis*. Gr.
 3. *Chlamydomonas pulvisculus*. Ehrb.



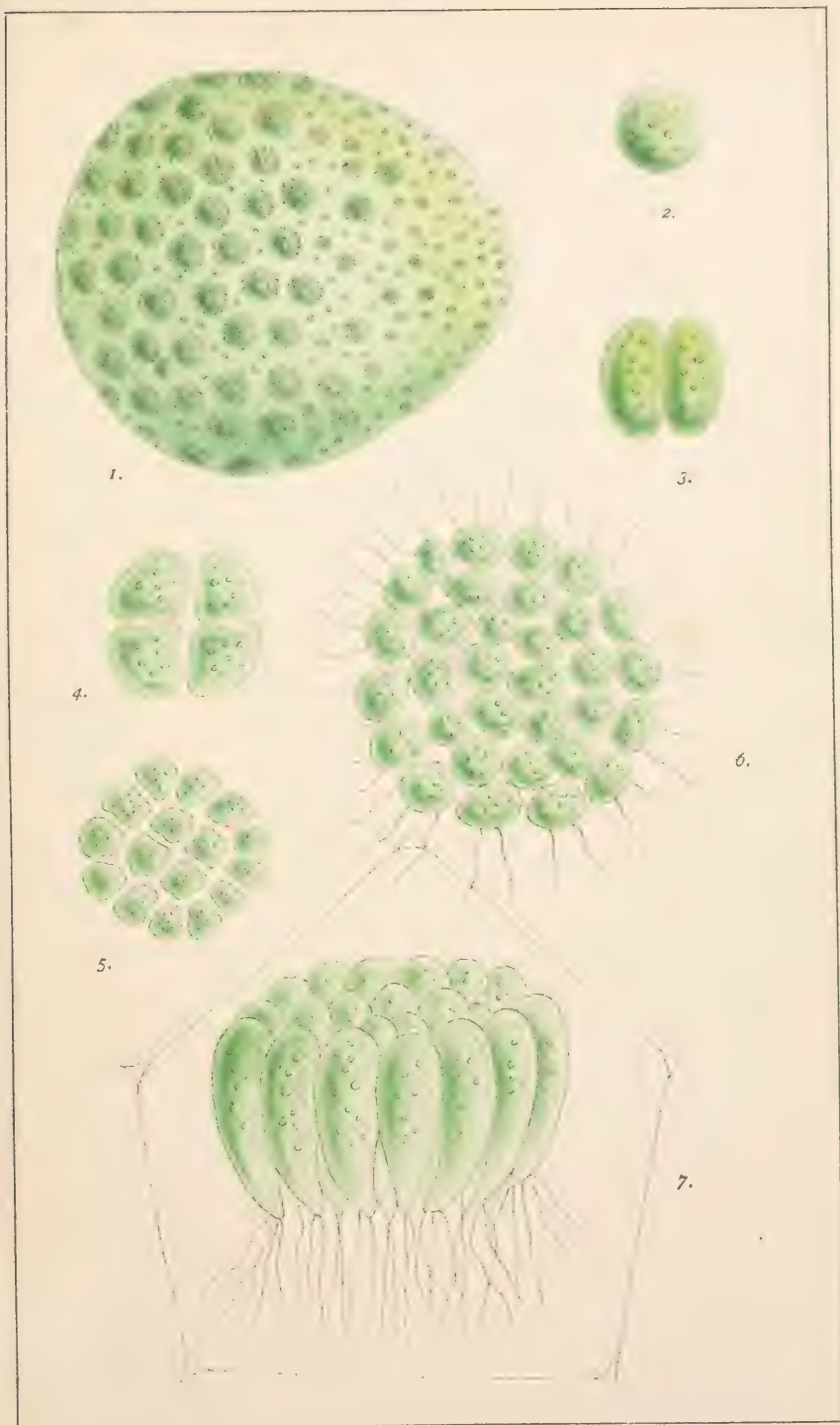


Volvox globator. Ehrb.

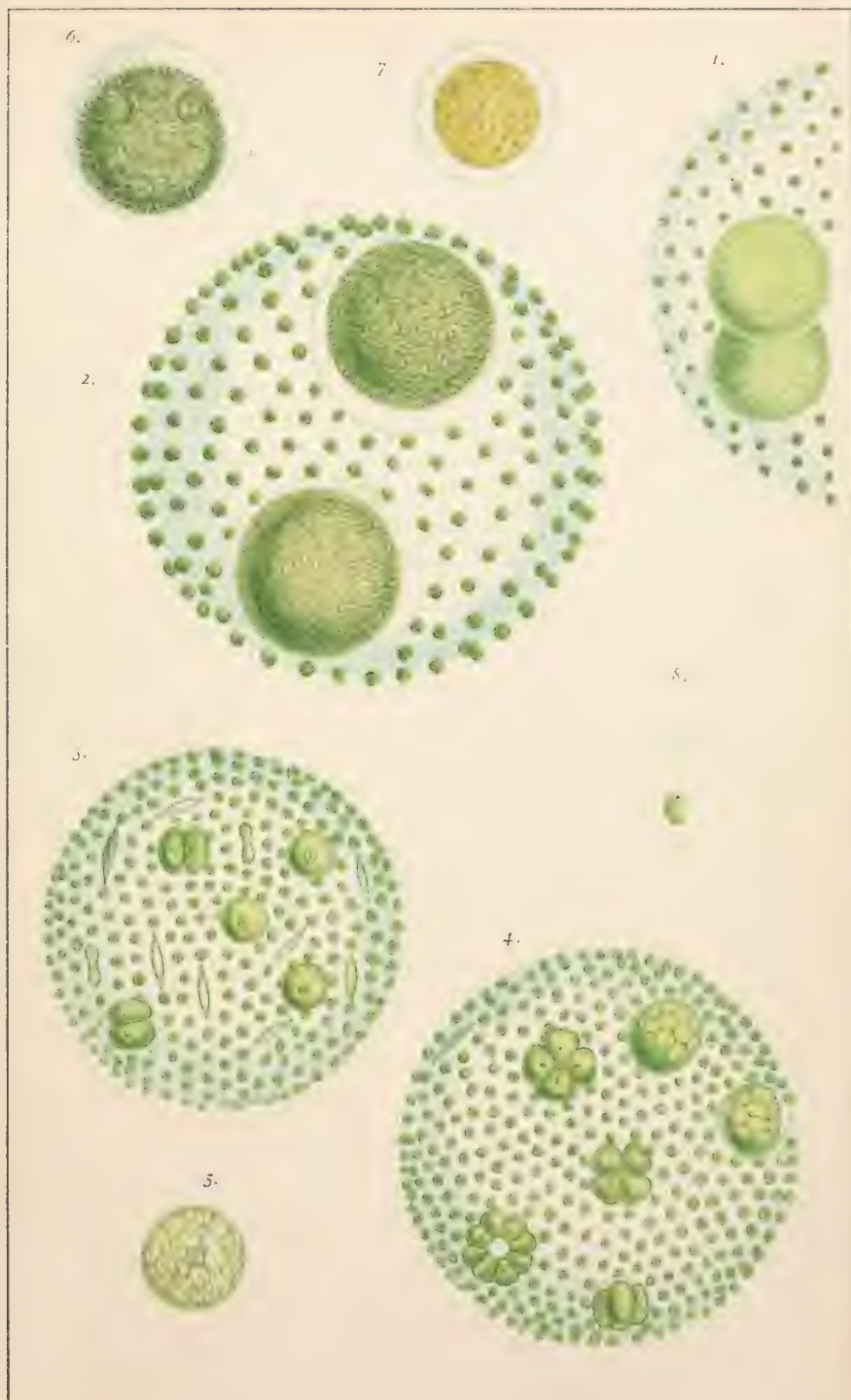


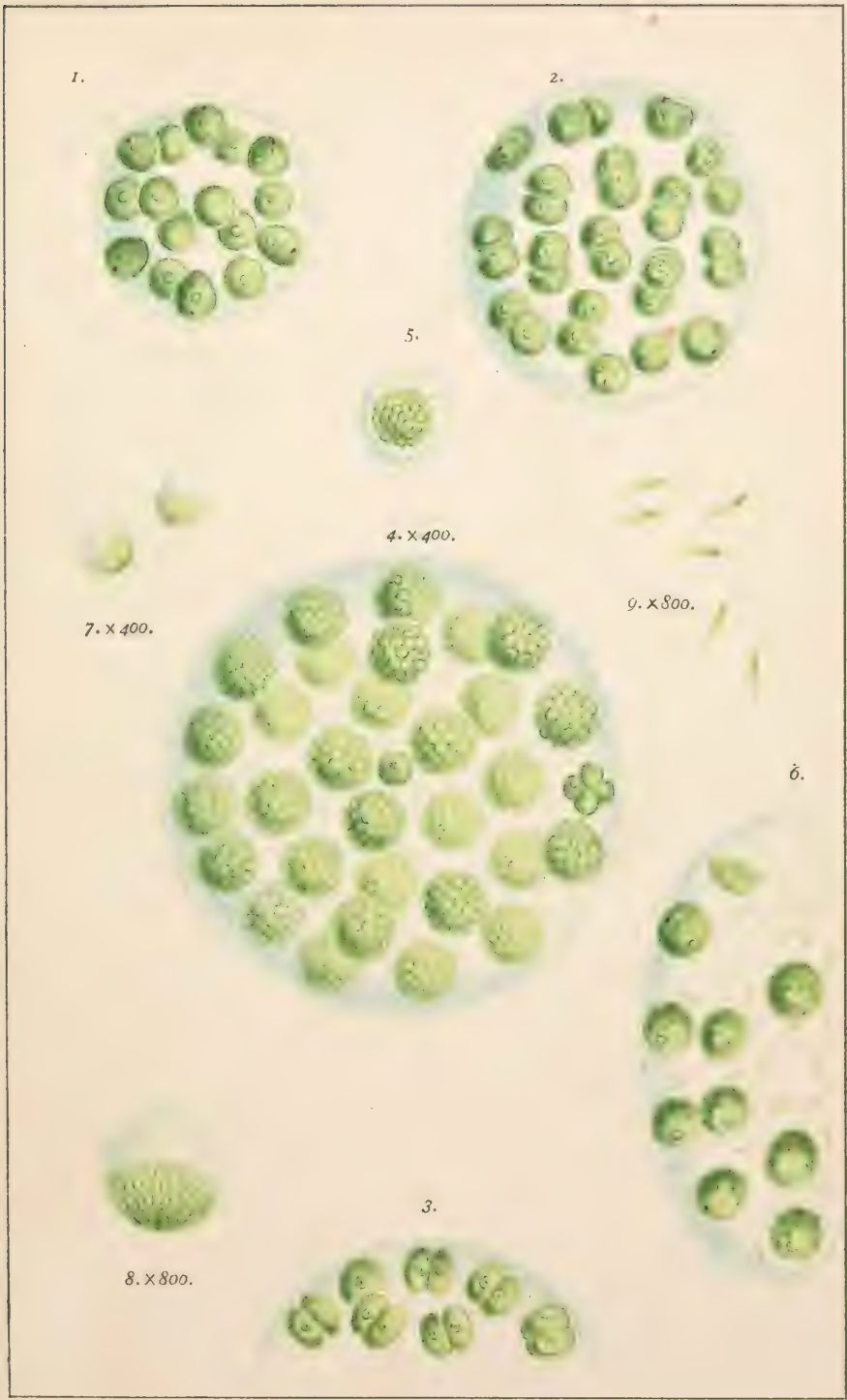


Volvox globator. Ehr.



Volvox globator. ♂ (*Sphærosira volvox* Ehr.)

*Volvox minor. Stein.*



Eudorina elegans. Ehrb.





1a.

1. a.-c. $\times 400$ 

1. b.



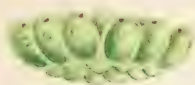
1. c.

1. e.

1. f.



1. d.



2. b.



2. a.



2. c.

1. g.



2. f.



2. d.

2. h.



2. g.



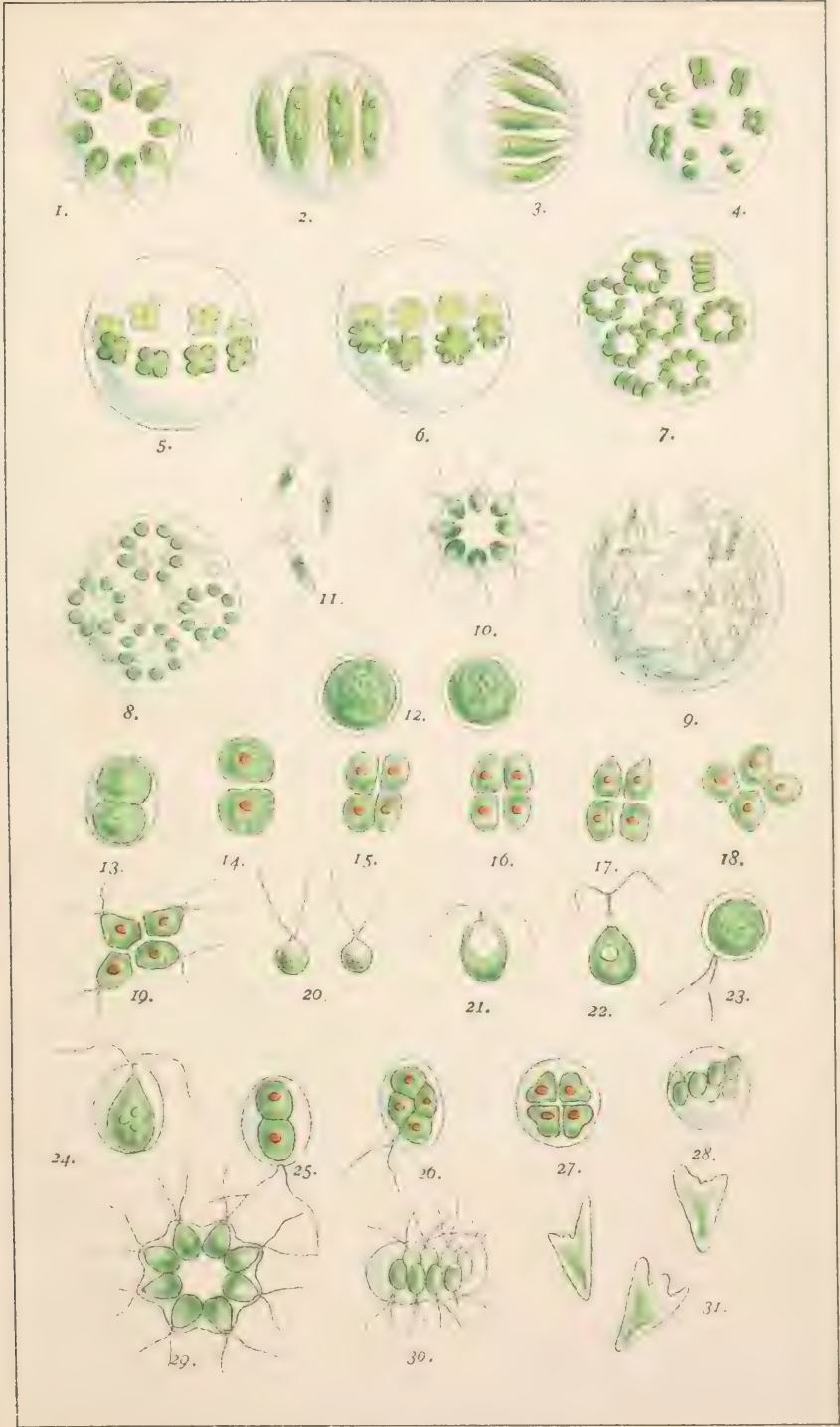
2. e.



2. i.

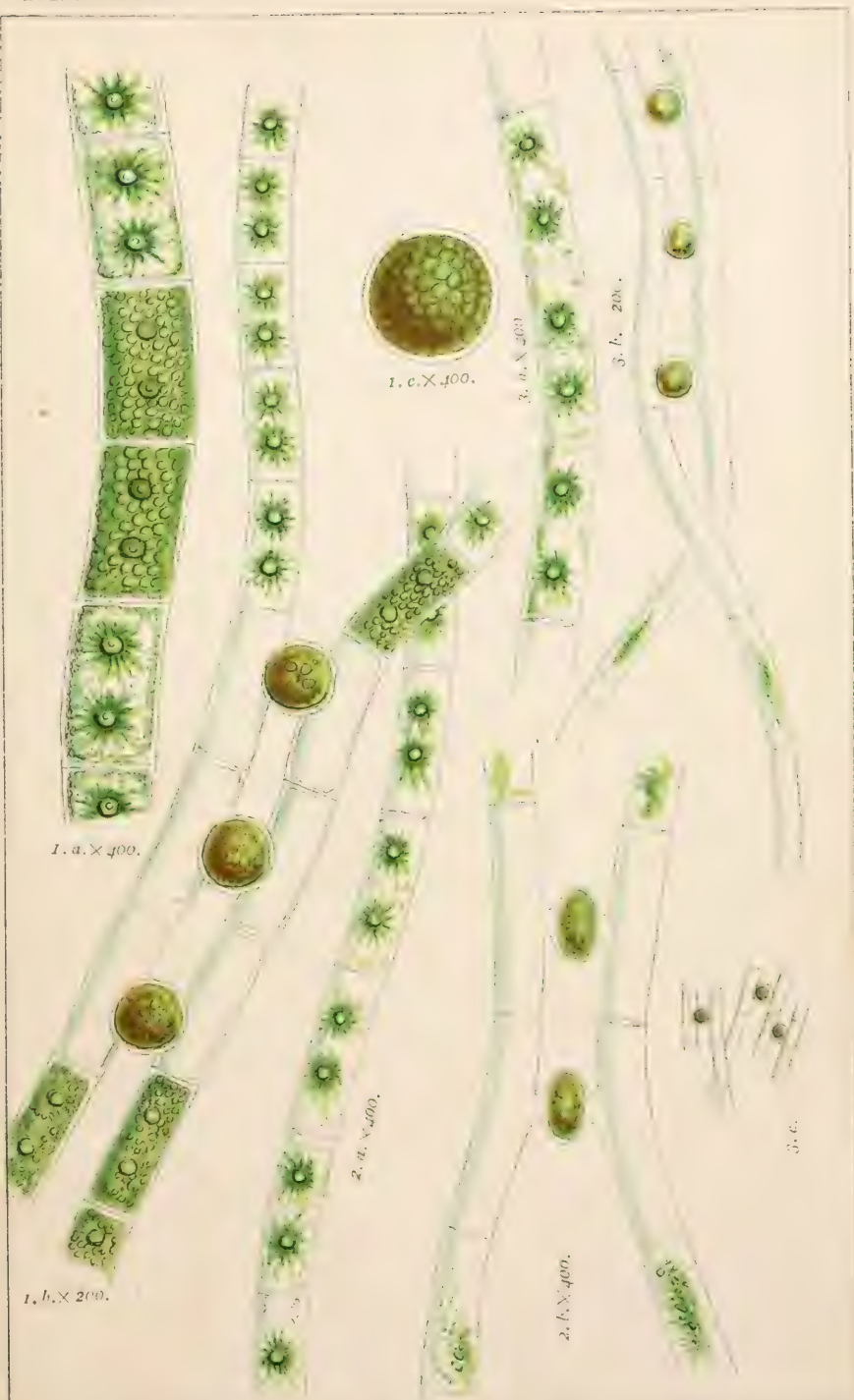
1. *Gonium pectorale*. Mull.2. *Pandorina morum*. Bory.





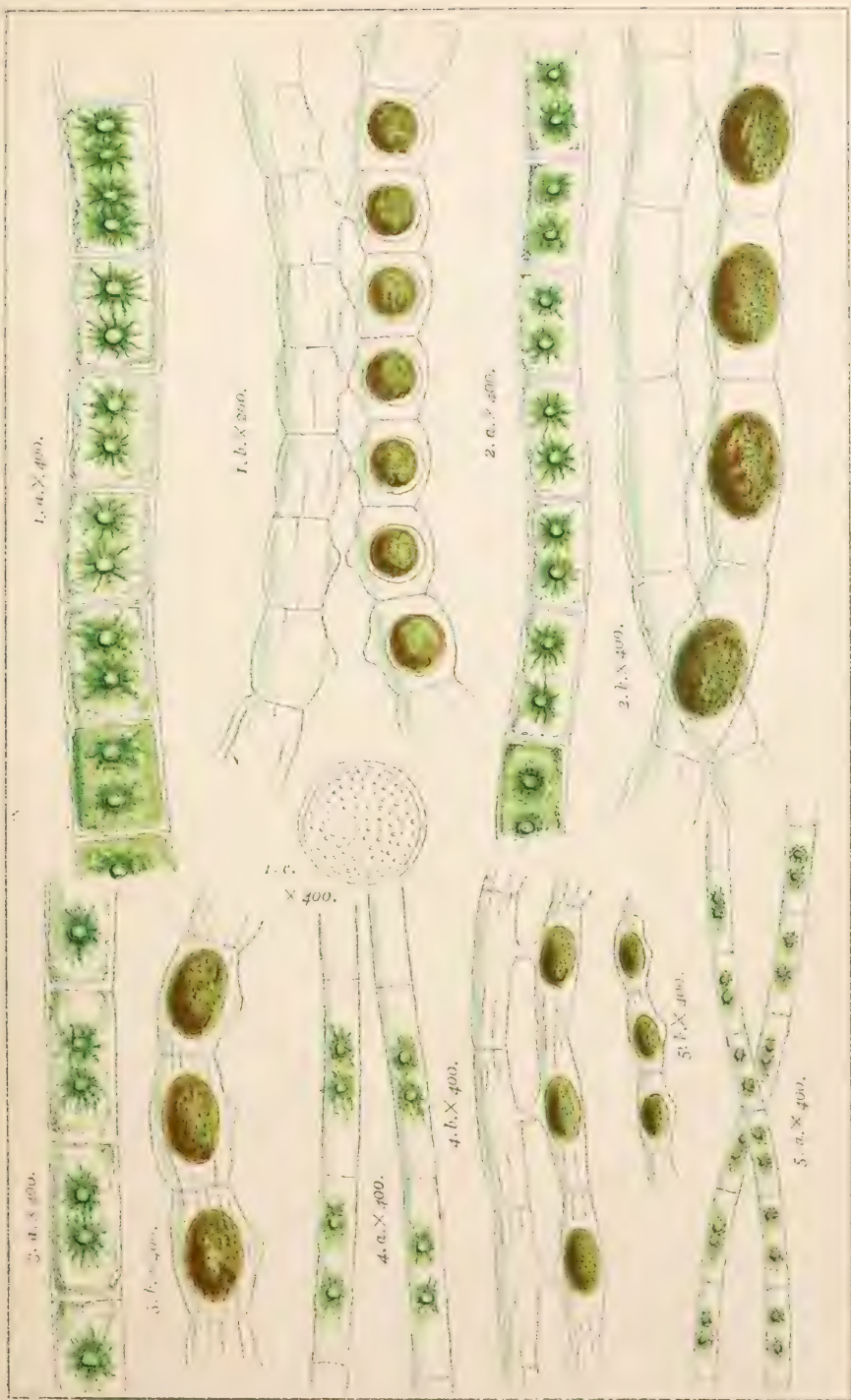
Stephanosphaera pluvialis. Cohn.





1. *Zygnema pectinatum*. Ag. 2. *Zygnema Ralfsii*. Hass.
3. *Zygnema parvulum*. Kutz.



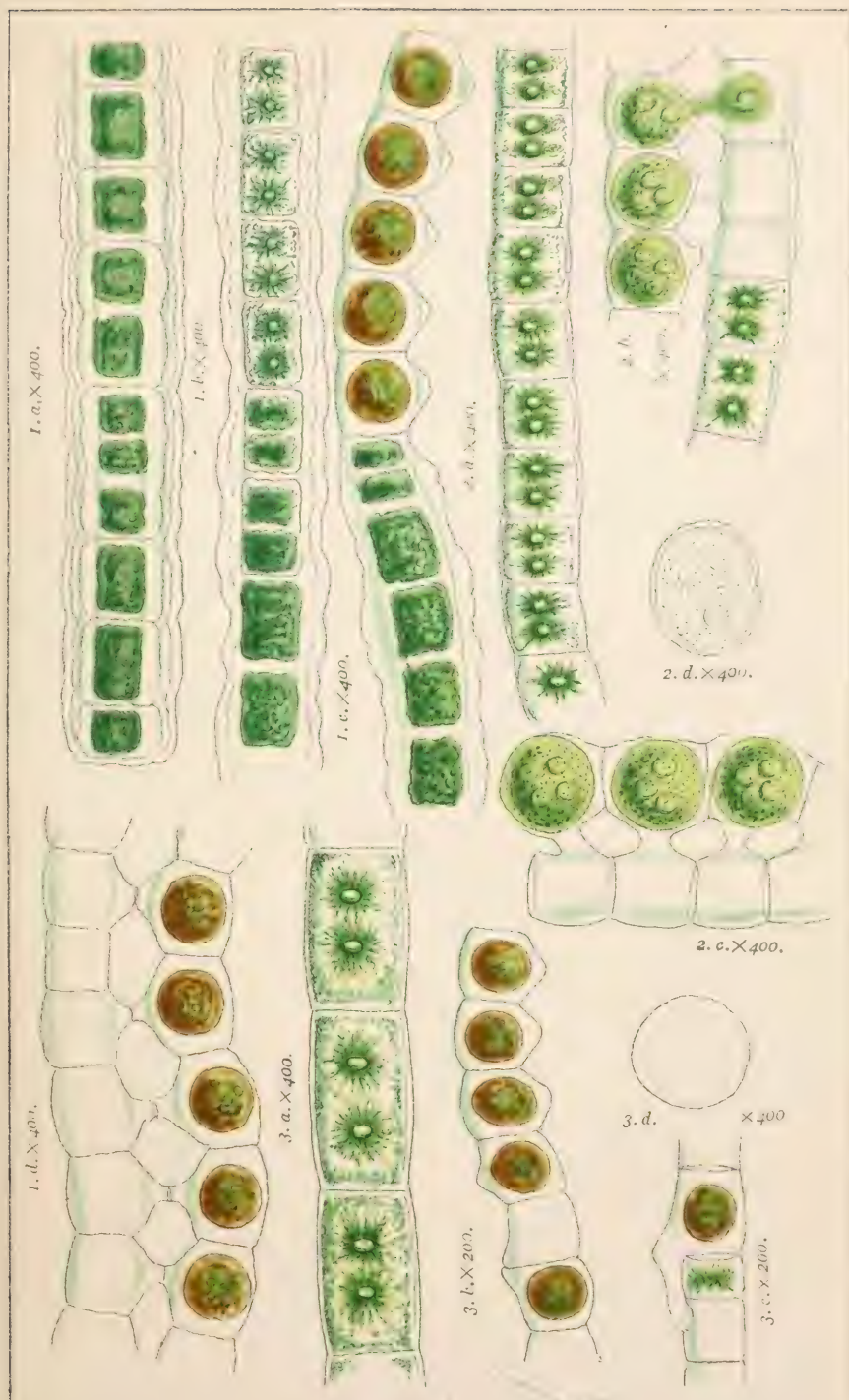


1. *Zygnema cruciatum*. $\mathcal{F}_{\frac{1}{2}}$.

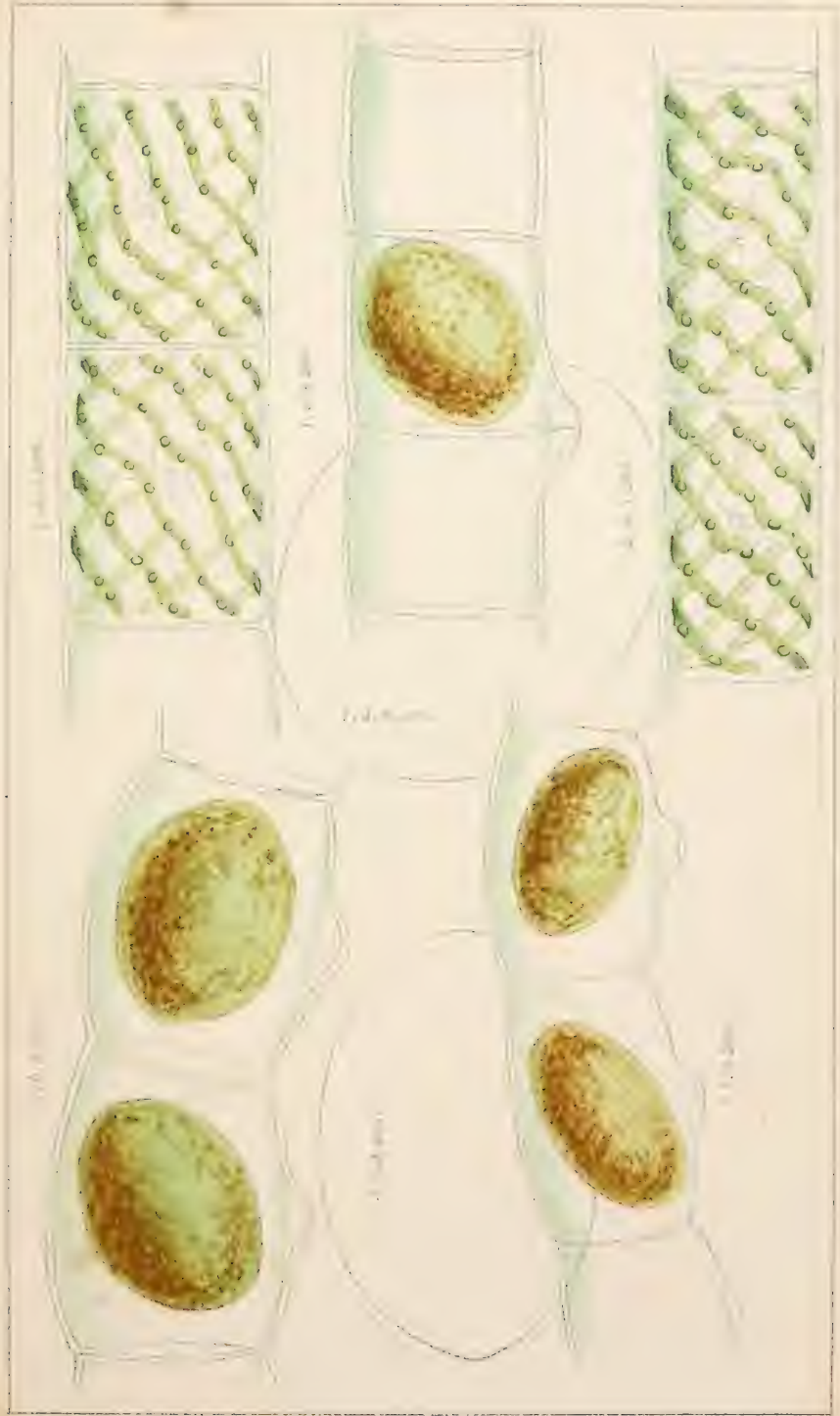
2. *Zygnema stellinum*. Vauch.

3. *Zygnema Vaucheri*. Ag.

4. var. *subtile*. 5. var. *stagnale*.



1. *Zygnema anomalum*, Ralfs. 2. *Zygnema leiospermum*, (DB).
3. *Zygnema insigne*, Kutz.

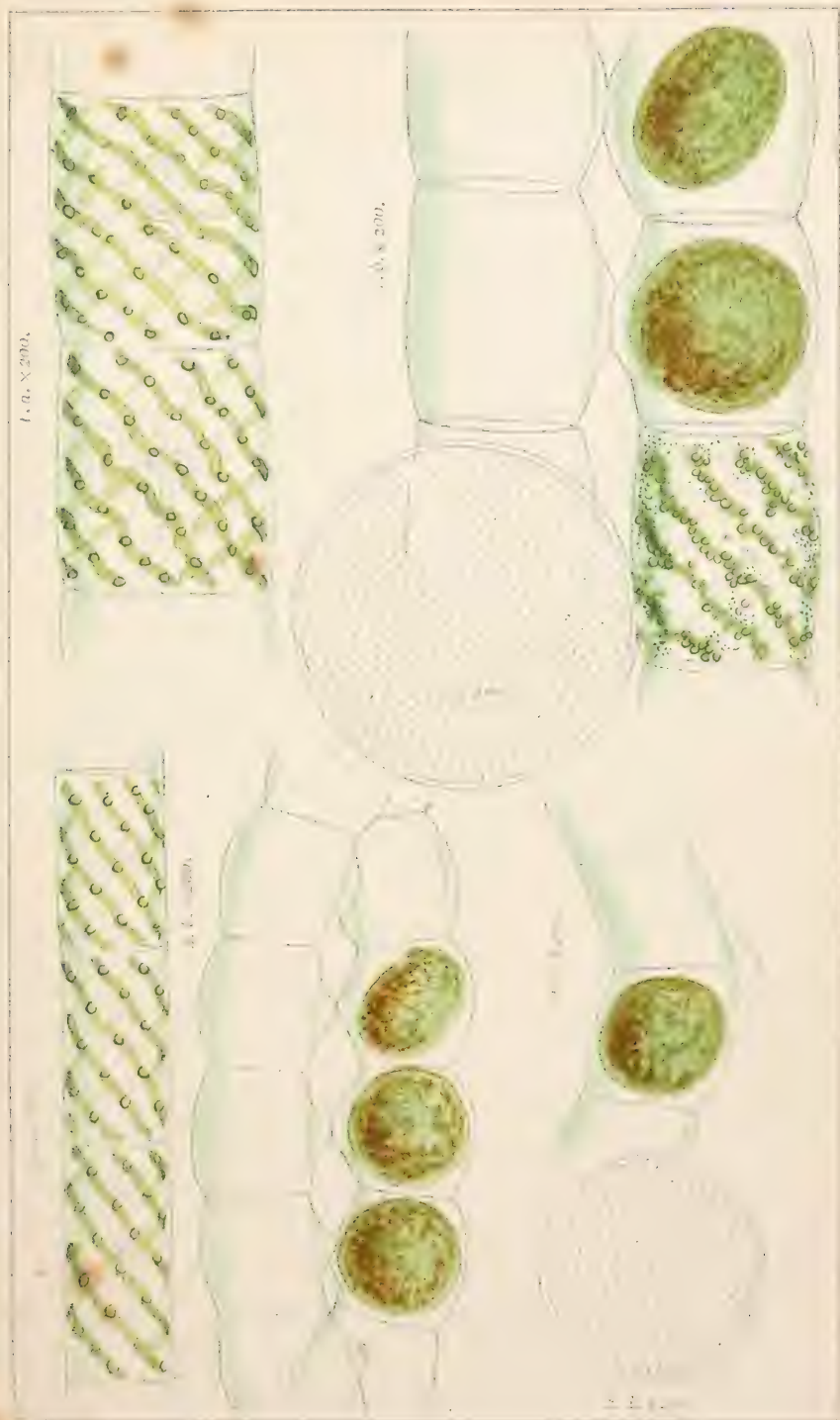


1. *Spirogyra crassa*. Kütz. 2. *Spirogyra jugalis*. Dillw.



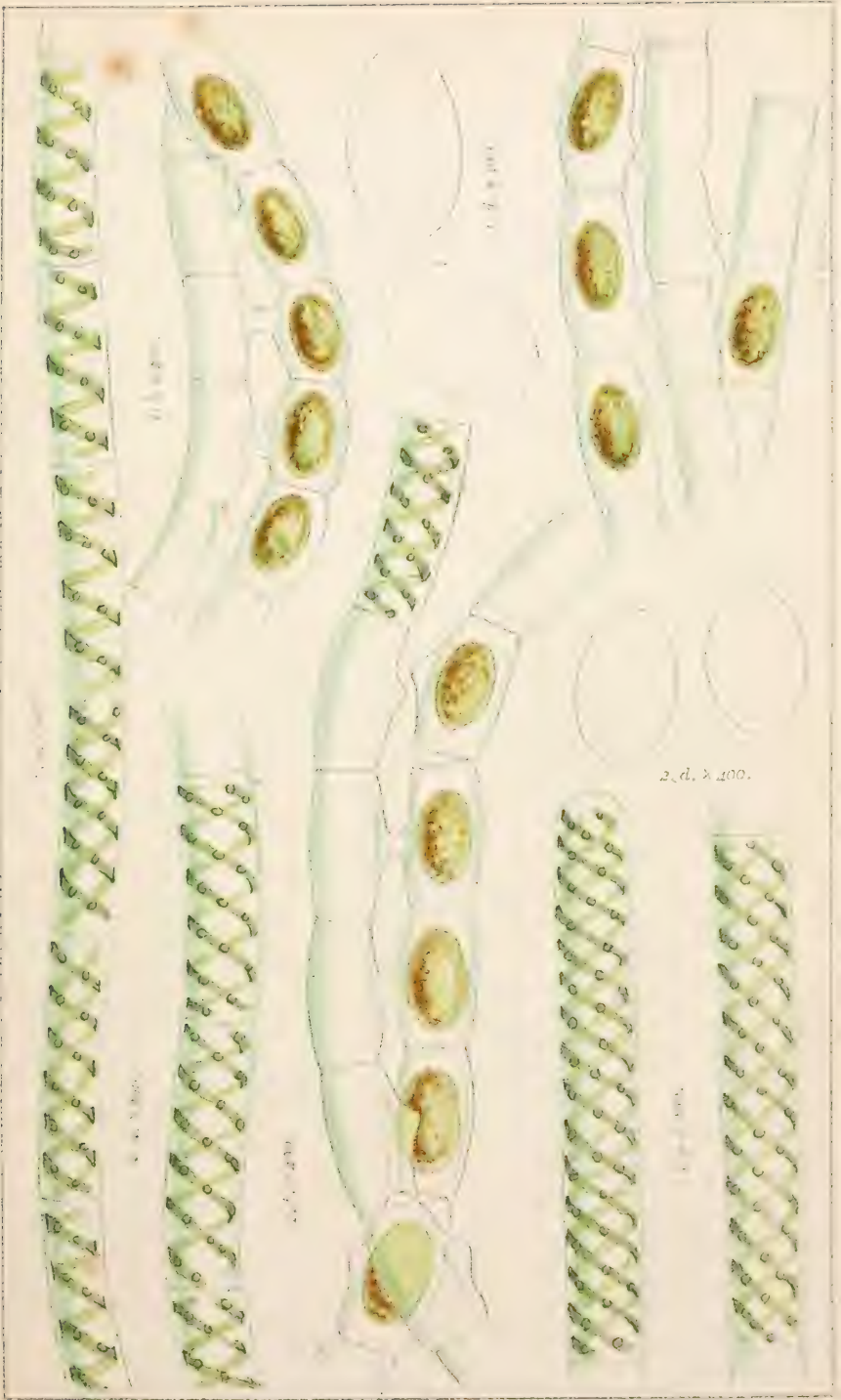
1. *Spirogyra nitida*. Dillw. 2. *Spirogyra orthospira*. Nag.





1. *Spirogyra orbicularis*.





Spirogyra porticalis. Vauch.

1. forma quinina. 2. forma decimina. 3. forma rivularis.



1. *Spirogyra condensata*. Vauch. 2. *Spirogyra longata*. Vauch.

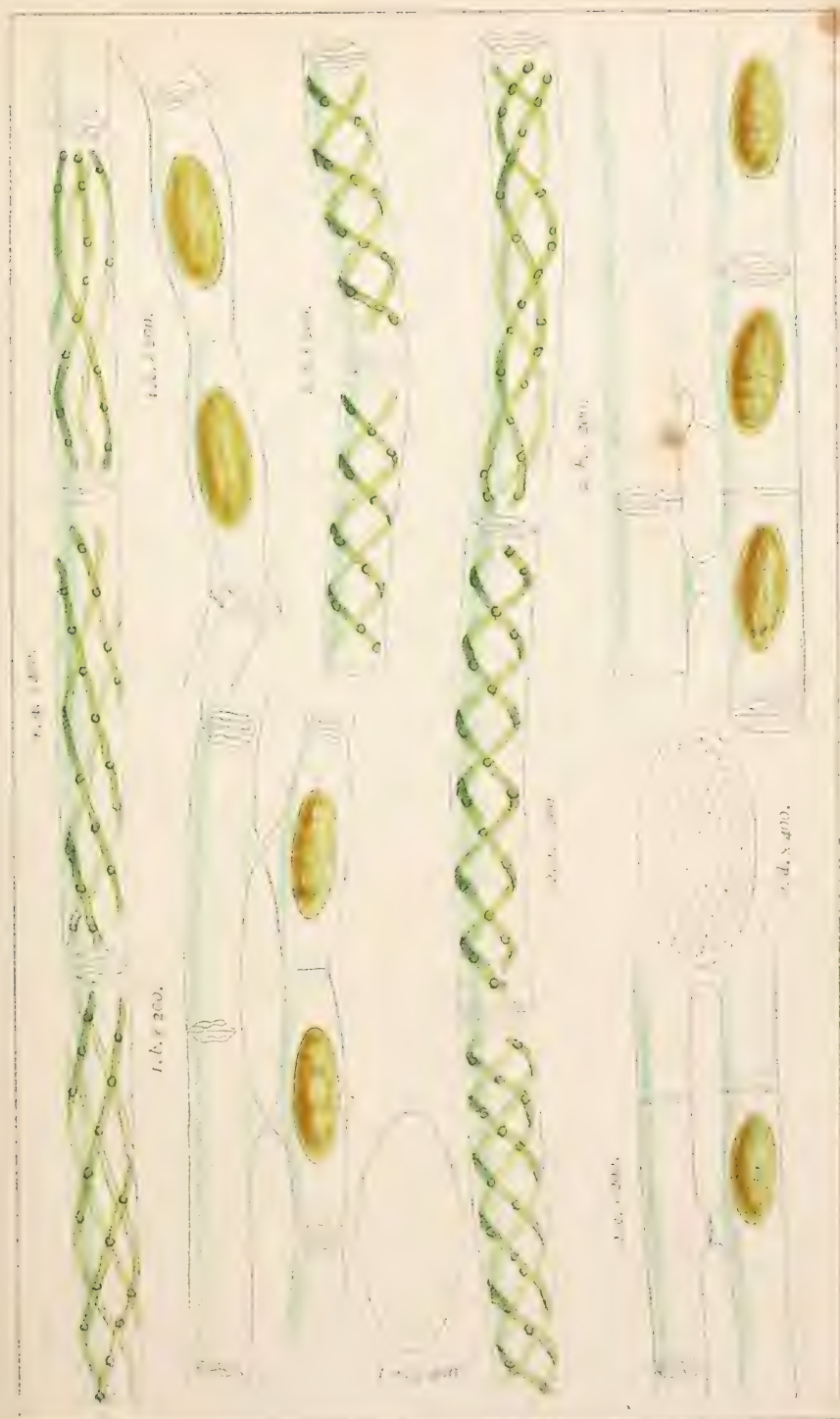




Spirogyra flavescens. Kutz.

1. var. gracilis. 2. var. flavescens. 3. var. parva.





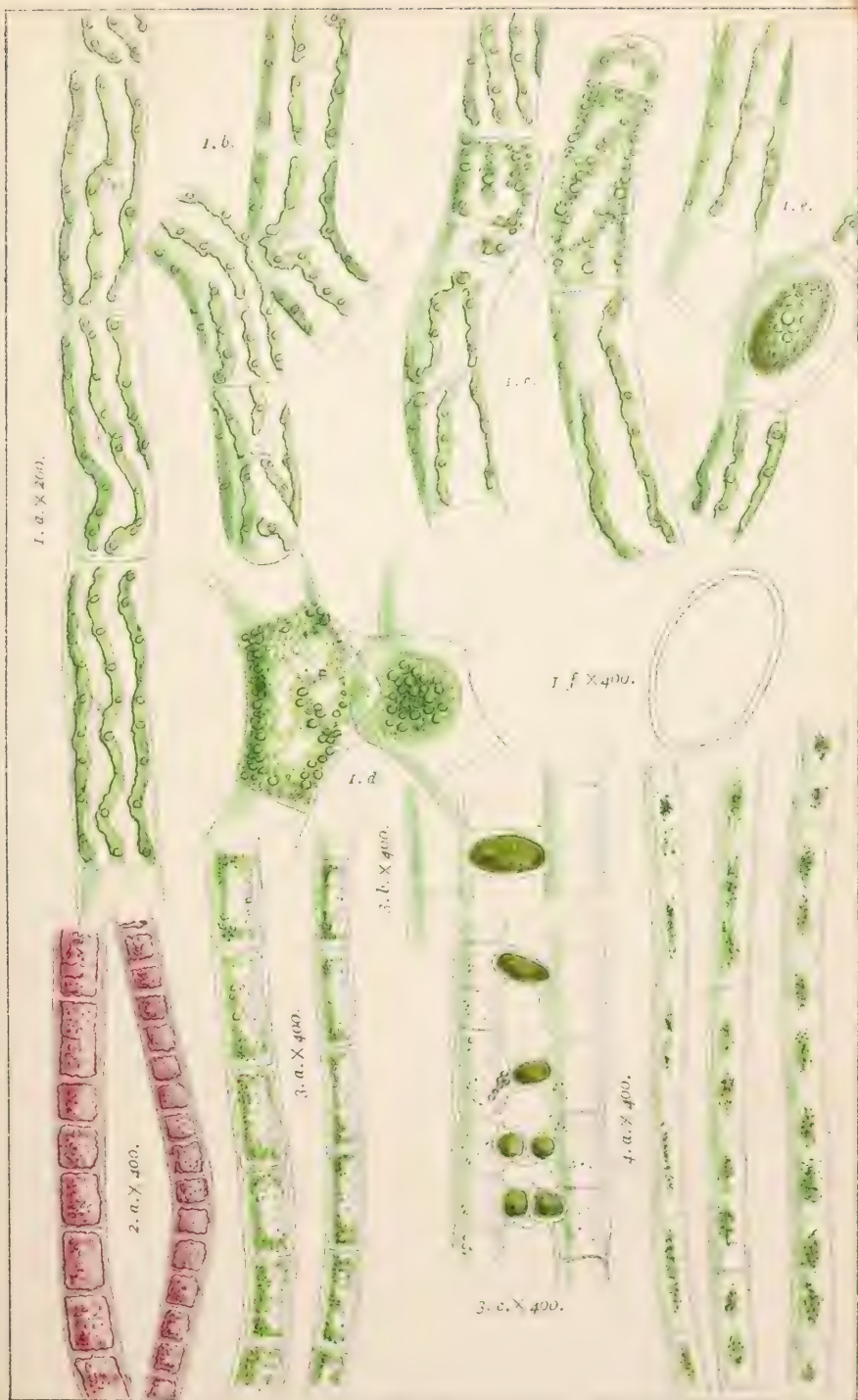
1. *Spirogyra insignis*. Haec. 2. *Spirogyra calospora*. Cleve.





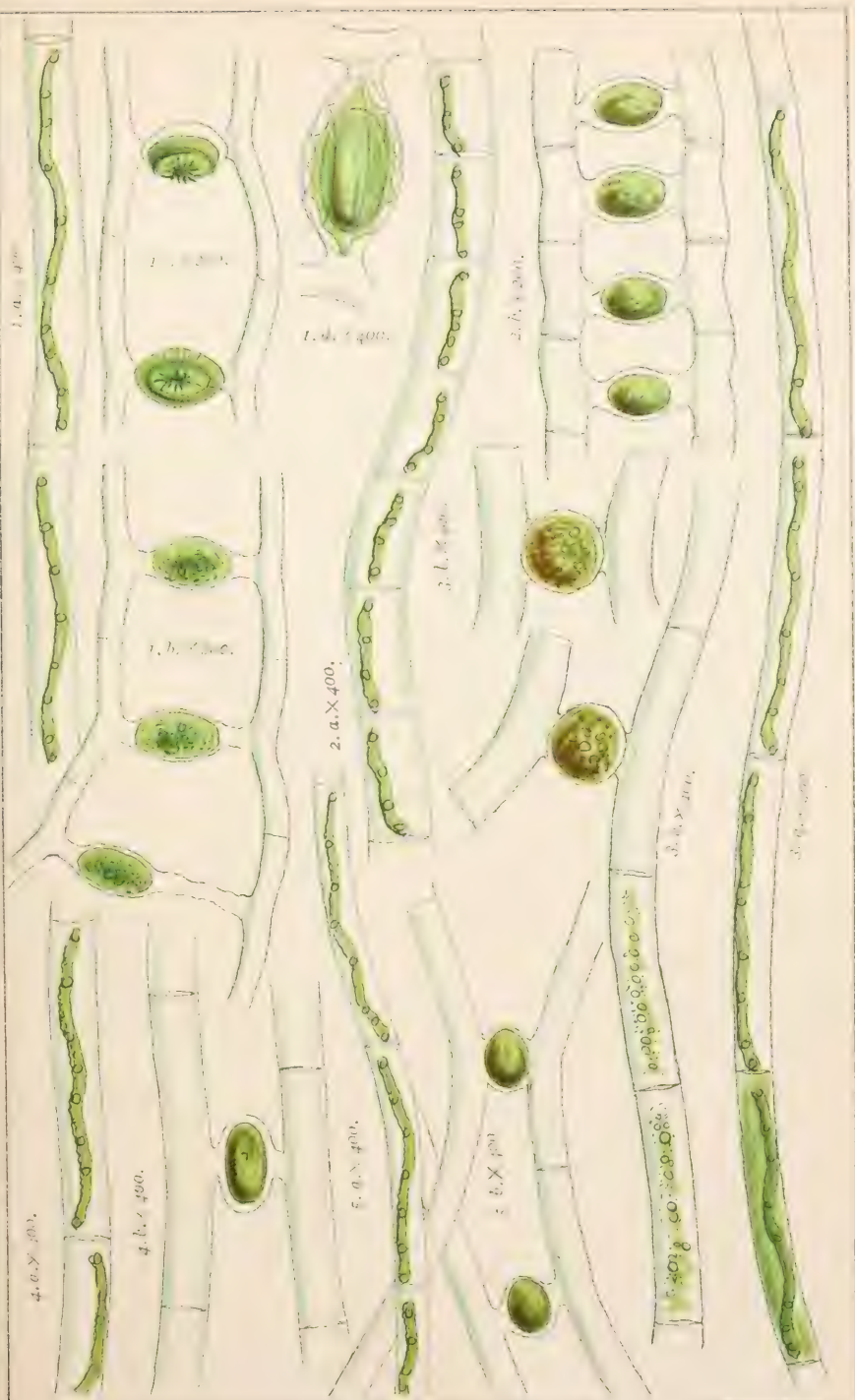
1. *Spirogyra quadrata*. Hass. 2. *Spirogyra Weberi*. Kutz.
3. *Spirogyra tenuissima*. Hass.





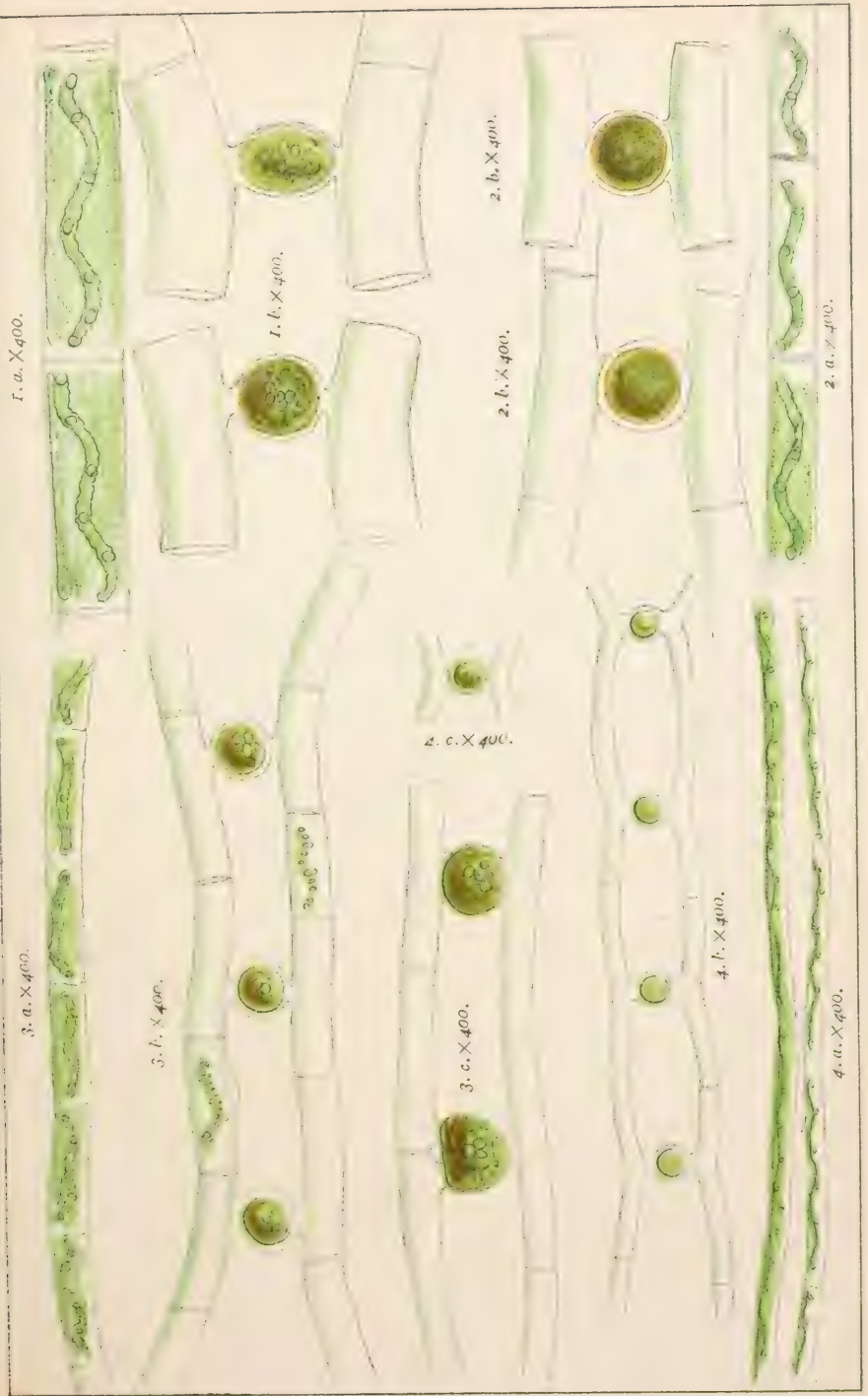
1. *Sirogonium sticticum*. Kütz. 2. *Zygonium ericetorum*. (Hy.)
 3. *Z. ericetorum*, var. *aquaticum*. 4. *Zygonium gracile*. Berk.





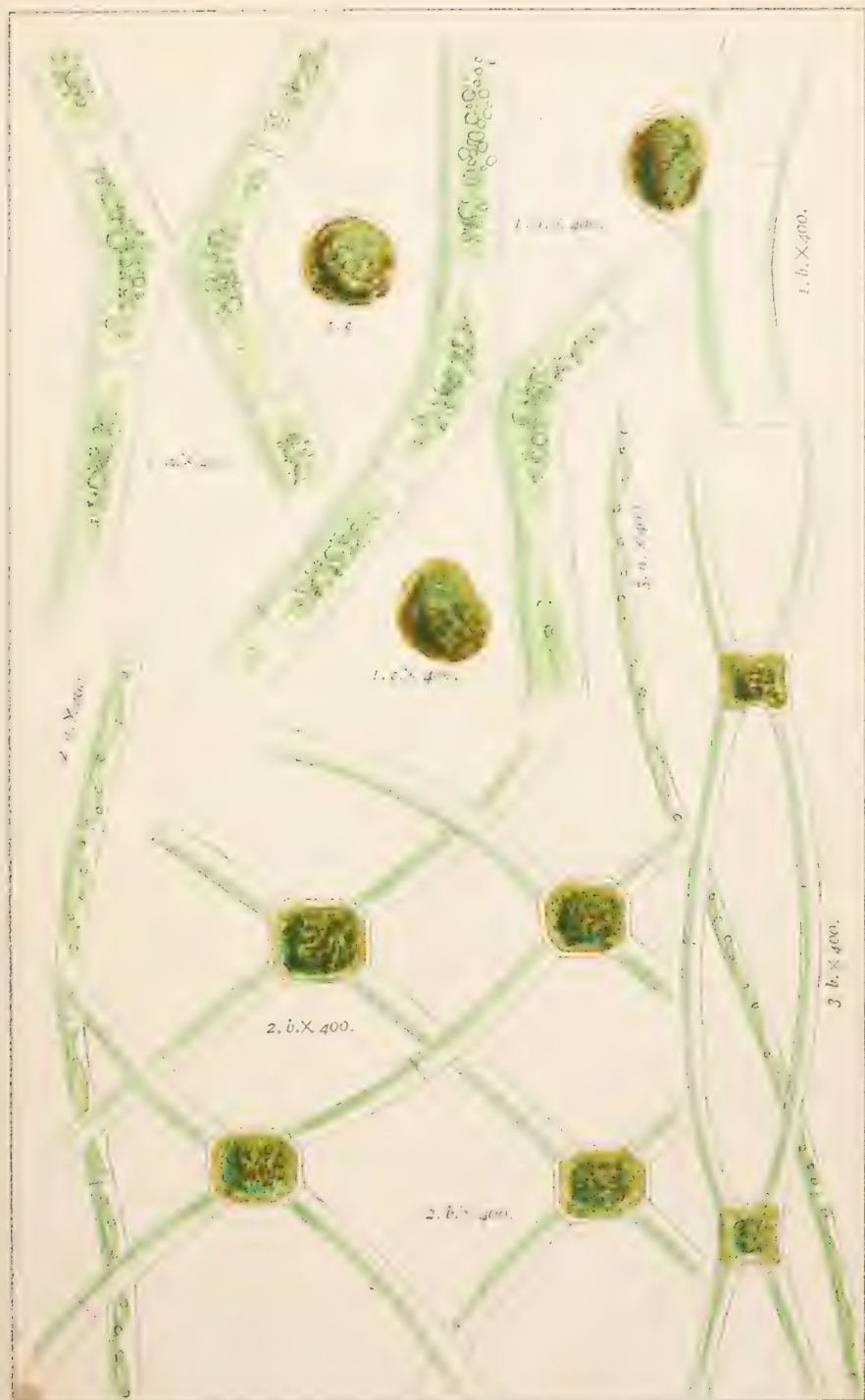
1. *Mougeotia glyptosperma*. (DBy.)
2. *Mougeotia laevis*. Archer.
3. *Mesocarpus nummuloides*. Hass.
4. *Mesocarpus depressus*. Hass.
5. *Mesocarpus depressus*, var. *ovalis*.





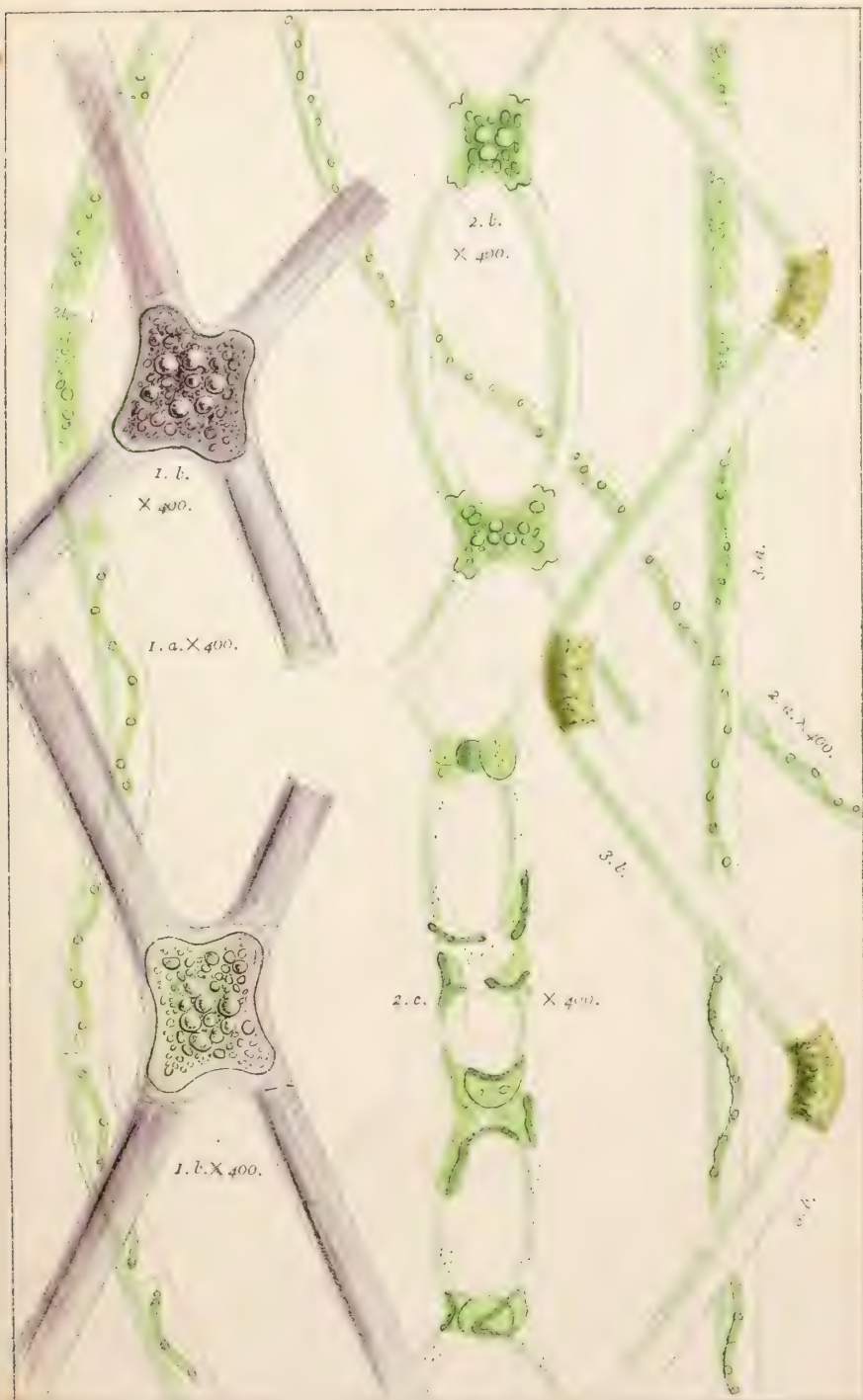
1. *Mesocarpus scalaris*. Hass.
2. *Mesocarpus recurvus*. Hass.
3. *Mesocarpus parvulus*. Hass.
4. *M. parvulus*, var. *angustus*. Hass.





1. *Mesocarpus pleurocarpus*. (DBy.) 2. *Staurospermum quadratum*. Hass.
3. *Staurospermum gracillimum*. Hass.





1. *Staurospermum capucinum*. Bory. 2. *Staurospermum viride*. Kutz.
3. *Gonatonema mirabile*. Hass.





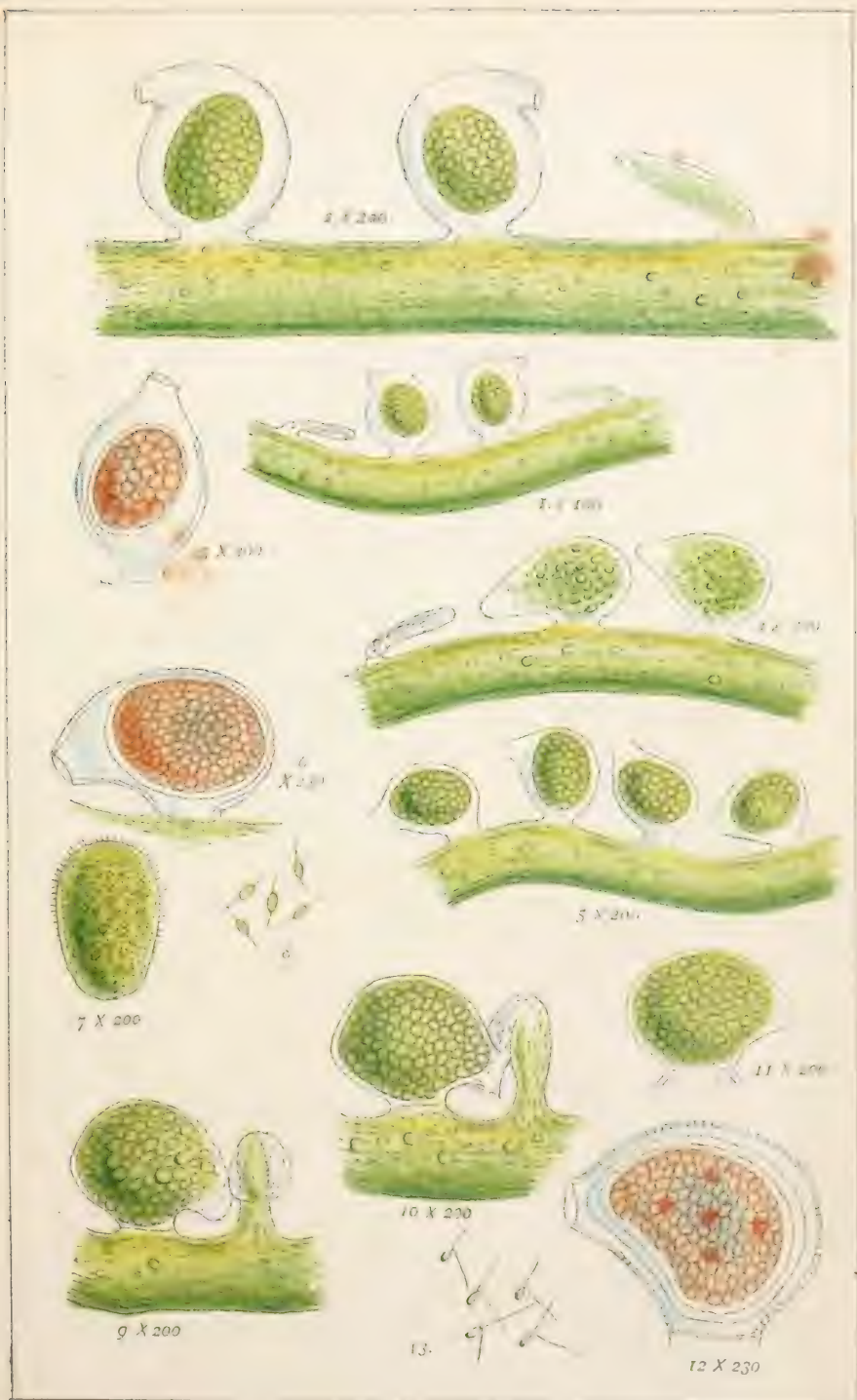
Botrydium granulatum, after Woronin.





1-20. Impregnation of *Vaucheria* —alli. 21-28. *Vaucheria dichotoma* Lyngb.





1-3 *Vaucheria aversa*. Hass. 4.-8. *Vaucheria sericea*. Lyngb.
9.-13. *Vaucheria Dillwynii*. Ag.





1.-2. *Vaucheria sessilis*. Vauch. 3. *caespitosa*. 4. *repens*. 5. sporangium.
 6.-9. *Vaucheria geminata*. D.C. 10.-14. *Vaucheria hamata*. Lyngb.



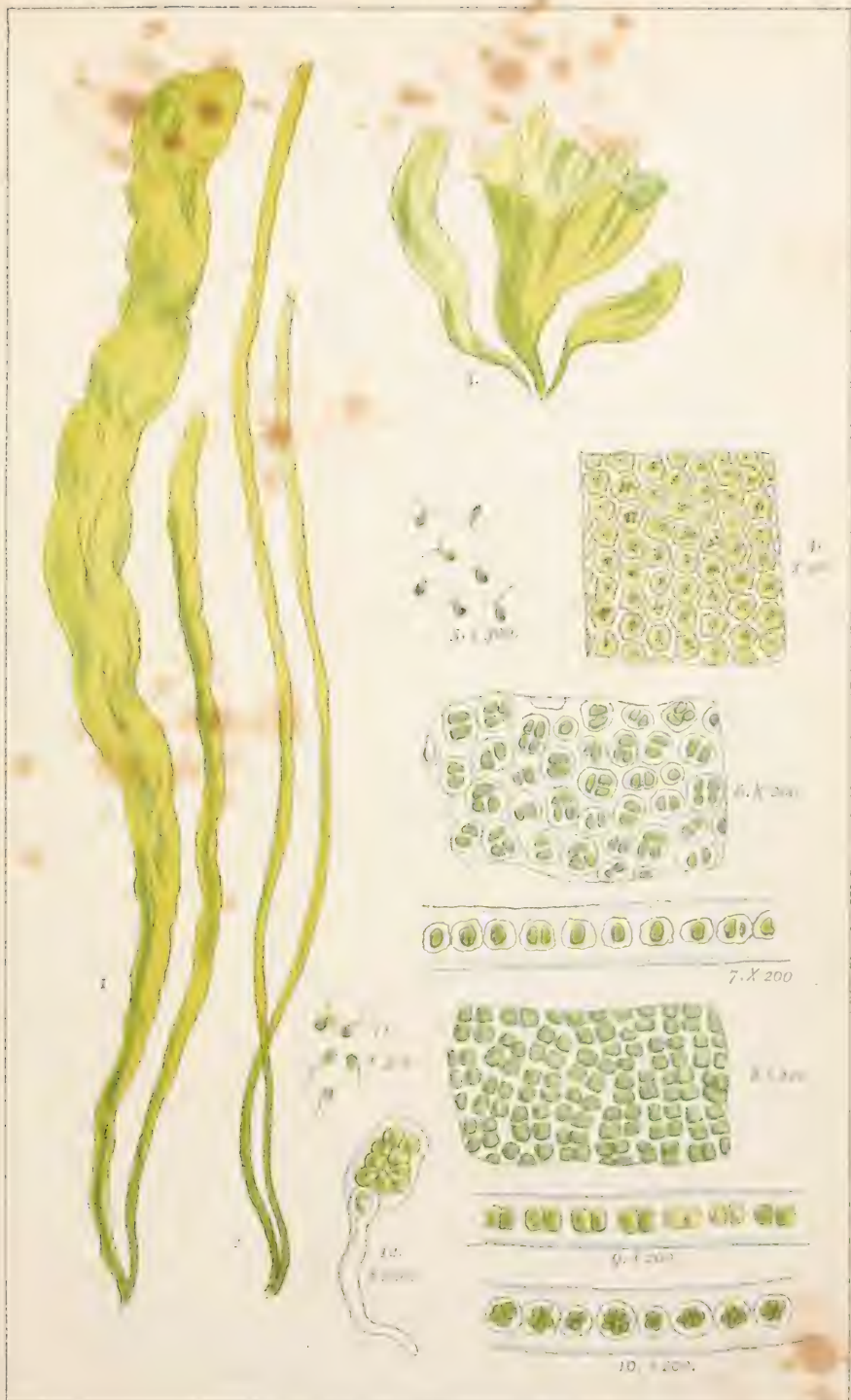


1.-3 *Vaucheria terrestris*. 4. *Vaucheria racemosus*, Hass.
 5.-6. *Vaucheria submarina*, Berk. 7. *Vaucheria velutina*, Ag.



1.-2. *Prasiola crispa*. Ktz.3.-4. *Prasiola calophylla*. Carm.5.-7. *Prasiola furfuracea*. Men.8.-11. *Prasiola stipitata*. Suhr.

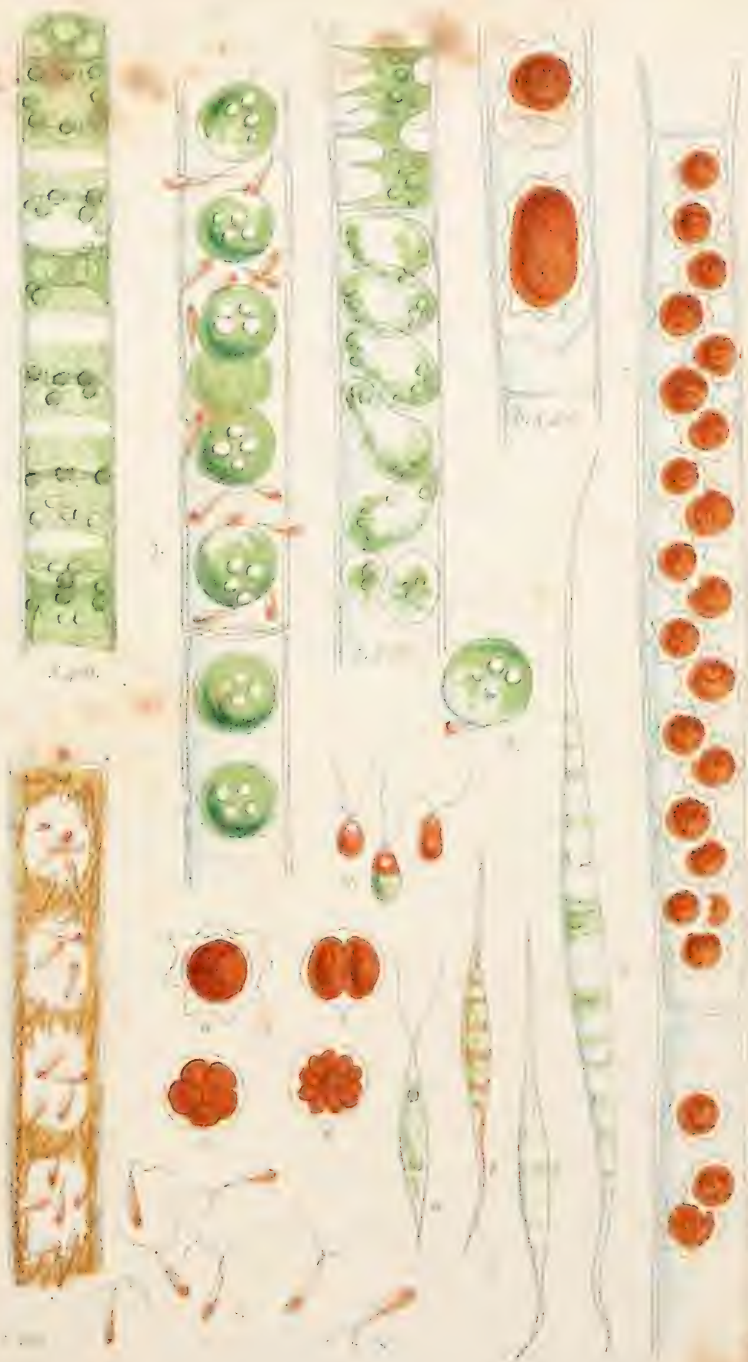




1.-5. *Enteromorpha intestinalis*. L. 6.-7. *Monostroma laceratum*. Thur.

8.-12. *Monostroma Wittrockii*. Born.





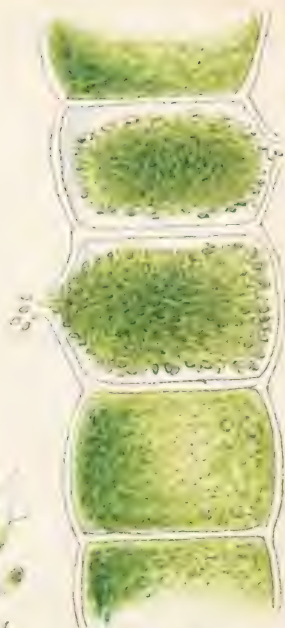
Sphæroplea annulina fgs. X 400.



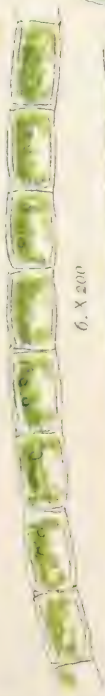


1. *Microspora fugacissima*. Thur.
2. *Microspora vulgaris*. Rabh.
3. *Microspora floccosa*. Thur.
4. *Conferva bombycina*. Ag
5. *Conferva tenerrima*. Kutz.
- 6.-7. *Conferva fontinalis*. Berk.



1. $\times 100$ 2. $\times 100$ 3. $\times 100$ 

4.

5. $\times 100$ 6. $\times 200$ 7. $\times 200$ 8. $\times 200$ 1. *Chaetomorpha litorea*. Harv.2.-4. *Chaetomorpha linum*. K.5. *Chaetomorpha sutoria*. Berk.6. *Chaetomorpha impleza*. Dillw.7. *Rhizoclonium Casparyi*. Harv.8. *Rhizoclonium flavicans*. Jurg.



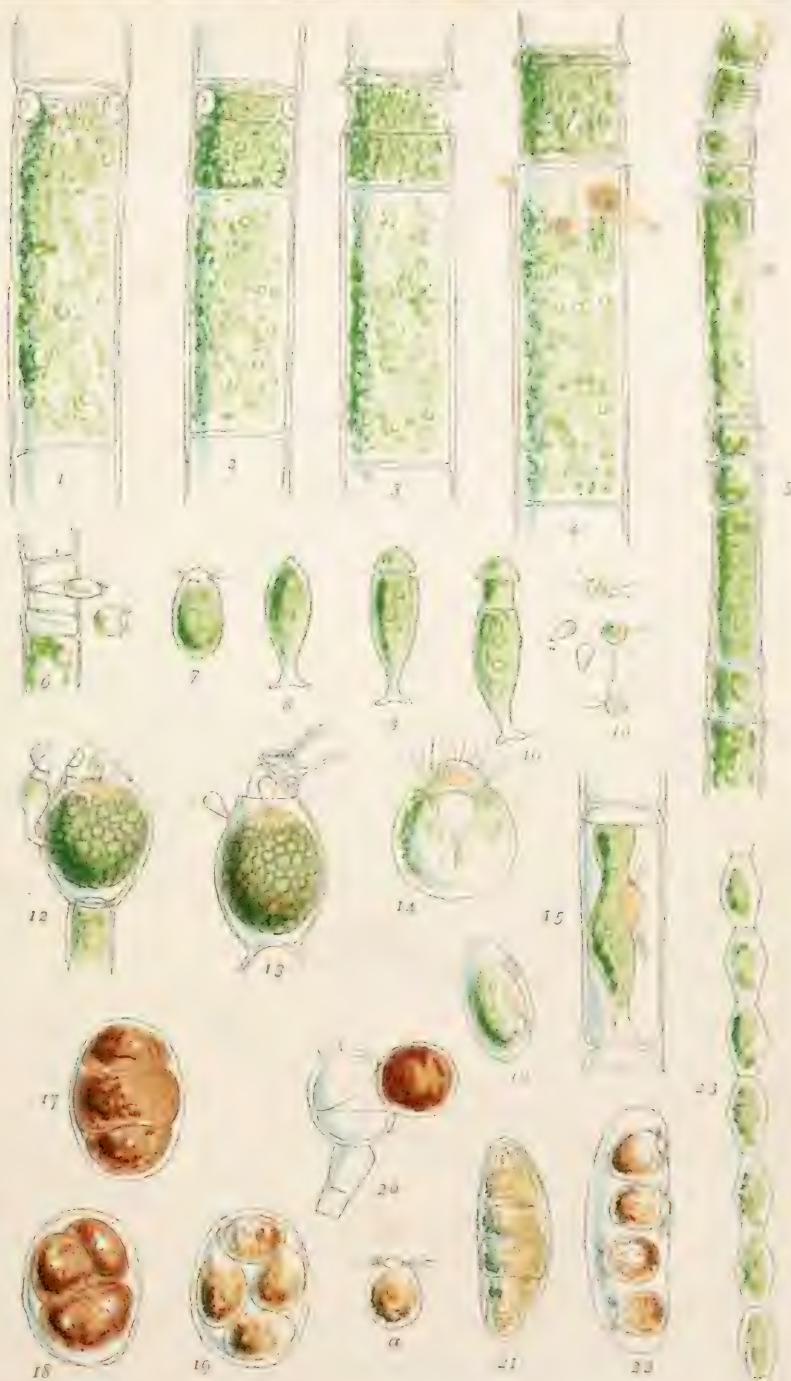
1.-2. *Cladophora fracta* K. 3.-4. *Cladophora crispata*. K.
5. 7. *Cladophora flavescens*. Ag





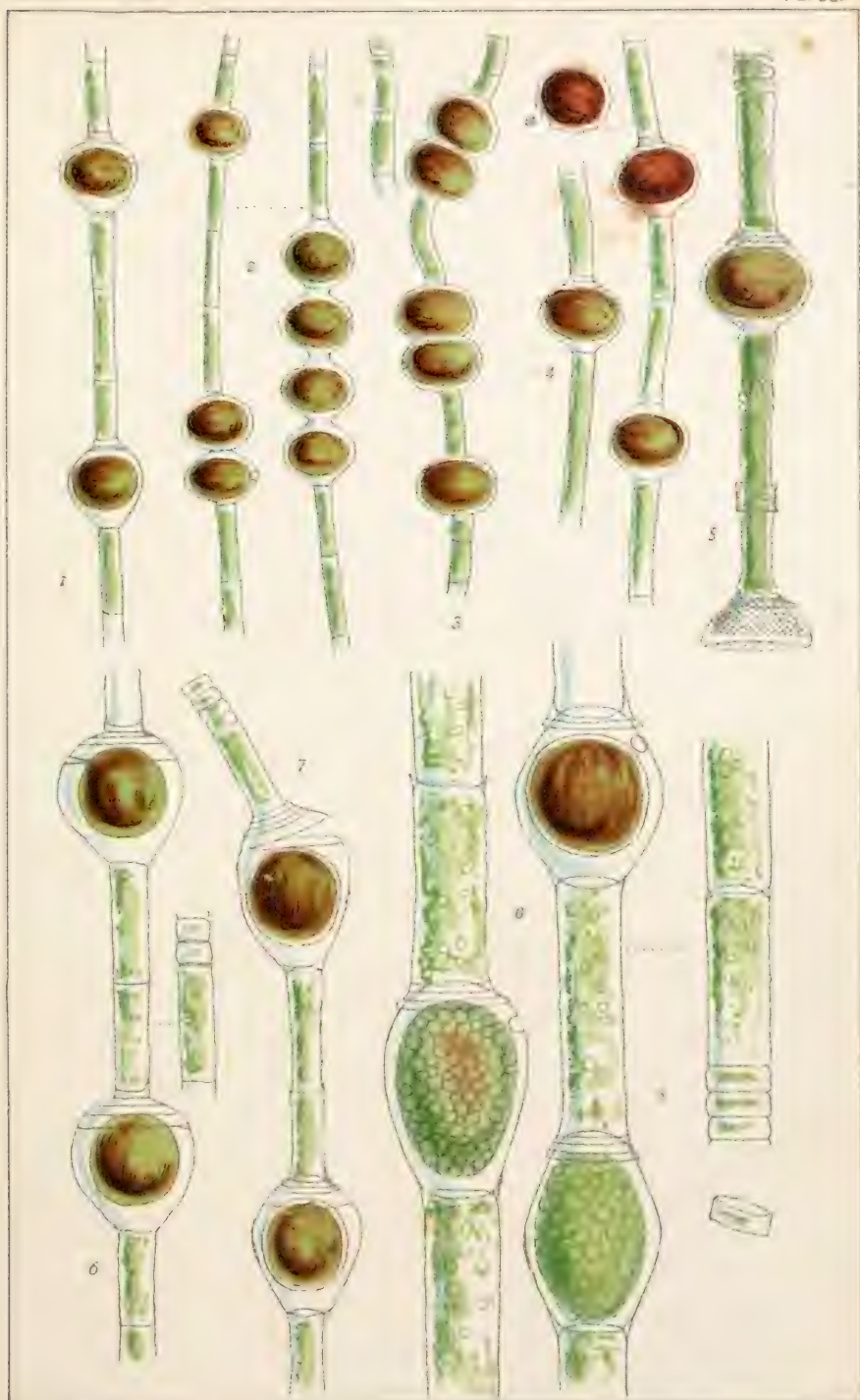
1.-4. *Cladophora glomerata*. L. 5. *Cladophora canalicularis*.
 6.-7. *Cladophora aegagropila*. L. 8.-11. *Pithophora kewensis*. Wi





Ædogonium, and Fulvobacte. X 400.





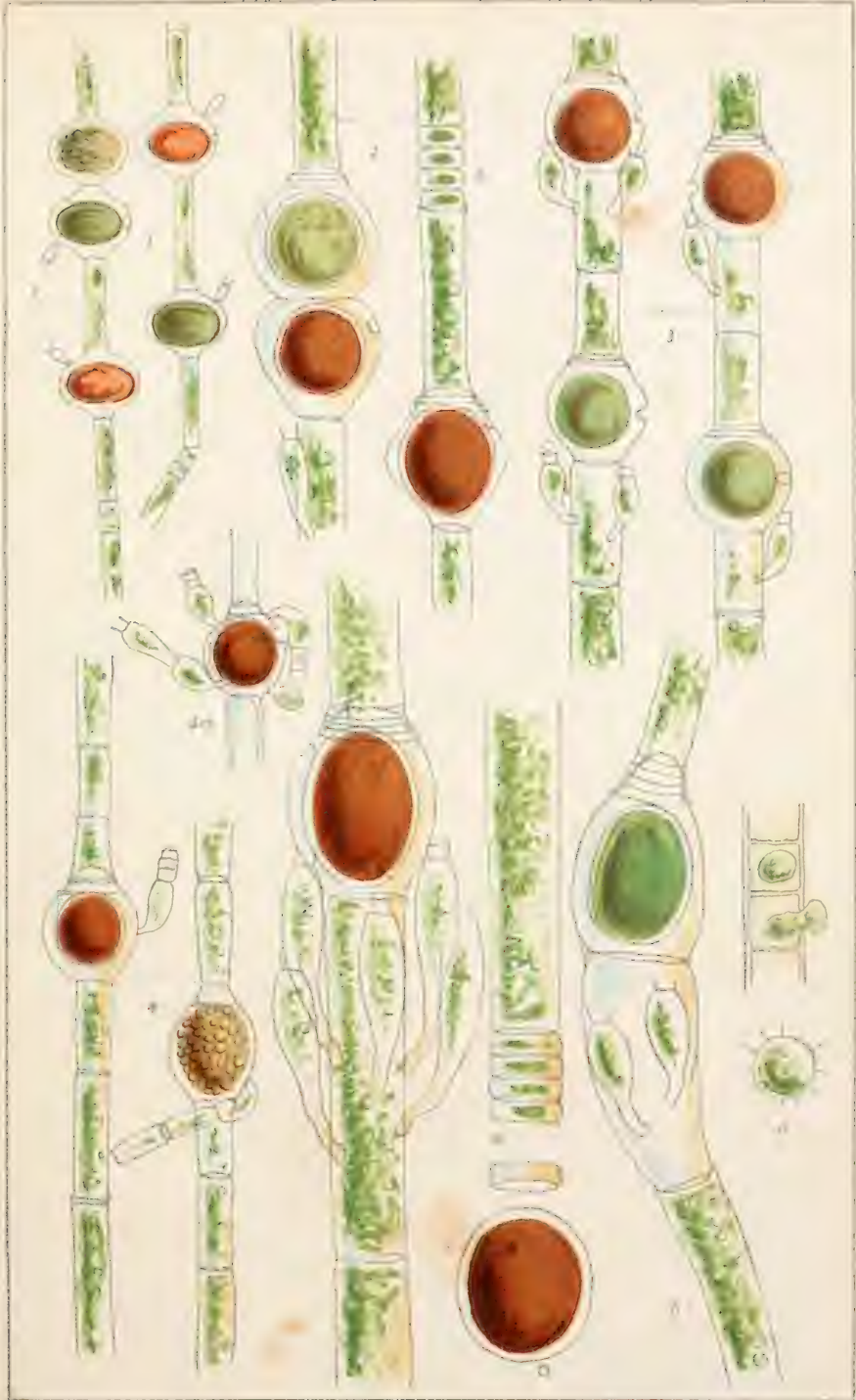
1. *Cedogonium Petri*. W. 2. *Cedog. cryptogorum* W. 3. *Cedog. purpureum*. Pr.
 4. *Cedog. cymathosporium*. W. 5. *Cedog. minus* W. 6. *Cedog. variabile* Hass.
 7. *Cedog. crispum*. Hass. 8. *Cedog. Vaucherii*. Br.





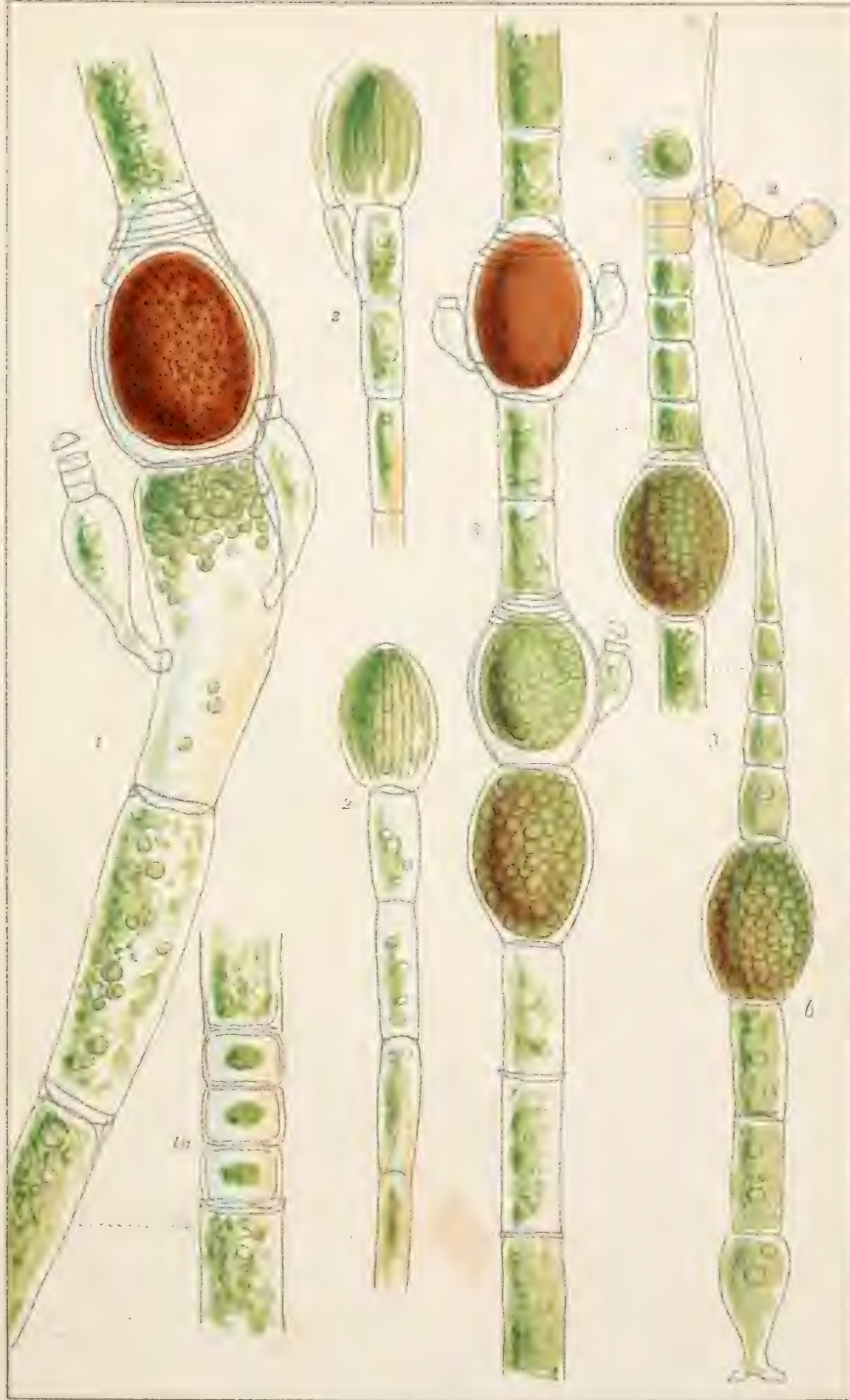
1. *Ædog. urbicum* W. 2. *Ædog. pulchrum* Haas. 3. *Ædog. longicollis* (Dby) 4. *Ædog. excisum* W. 5. *Ædog. platygynum* W. 6. *Ædog. Rothii* Pr. 7. *Ædog. Areschougii* W. 8. *Ædog. pluviale* Nord. 9. *Ædog. undulatum* Breb.





1. *Edog. depressum*. Pr. 2 *Edog. flavescens*. Hass. 3 *Edog. Brauni*.
4. *Edog. macrandum*. W. 5. *Edog. crassiusculum*. W. 6. *Edog. Forisianum*. W.



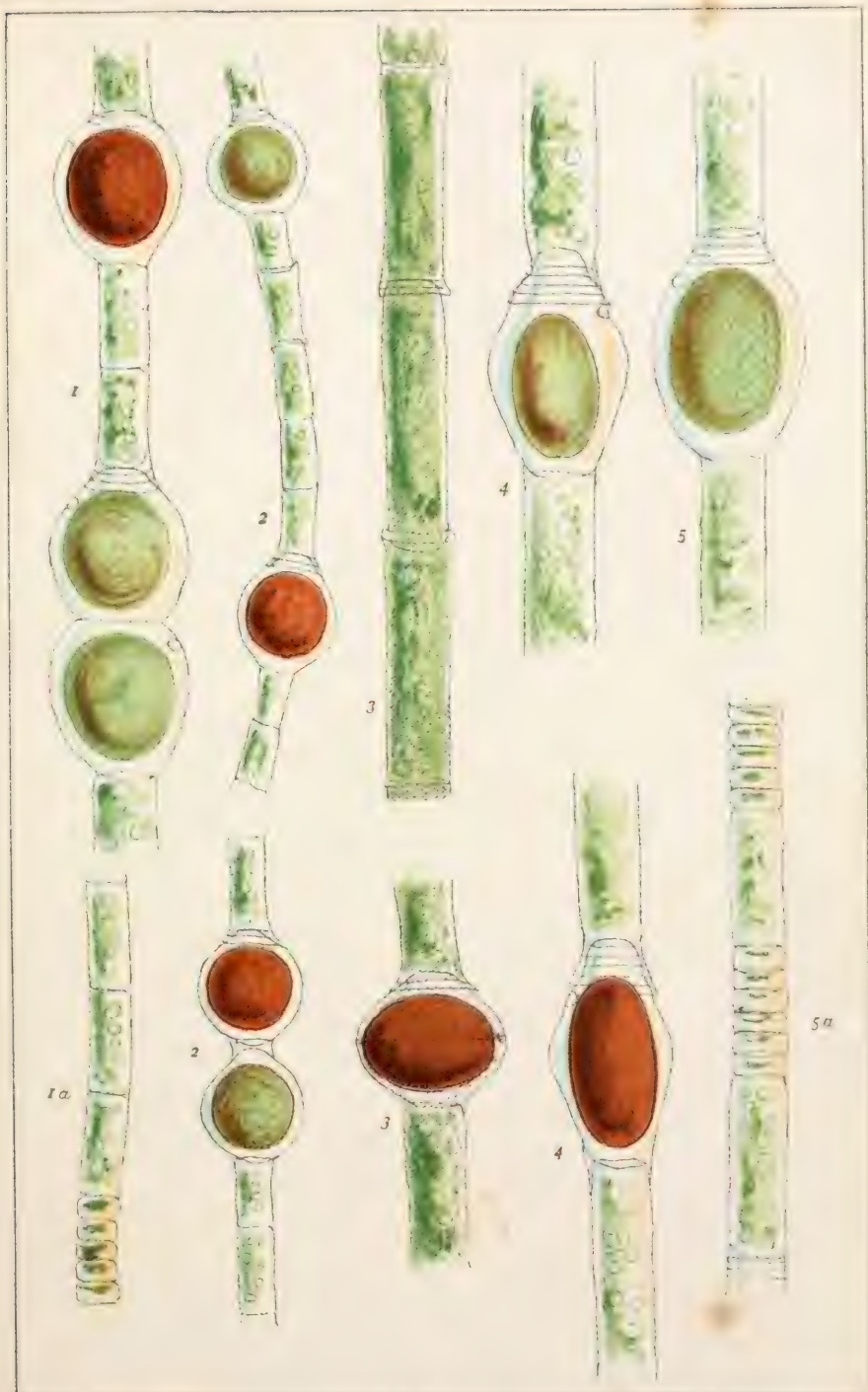


Edog. concatenatum. Hass. 2 *Edog. acrosporum*. D. By. 3. *Edog. ciliatum*. Br.



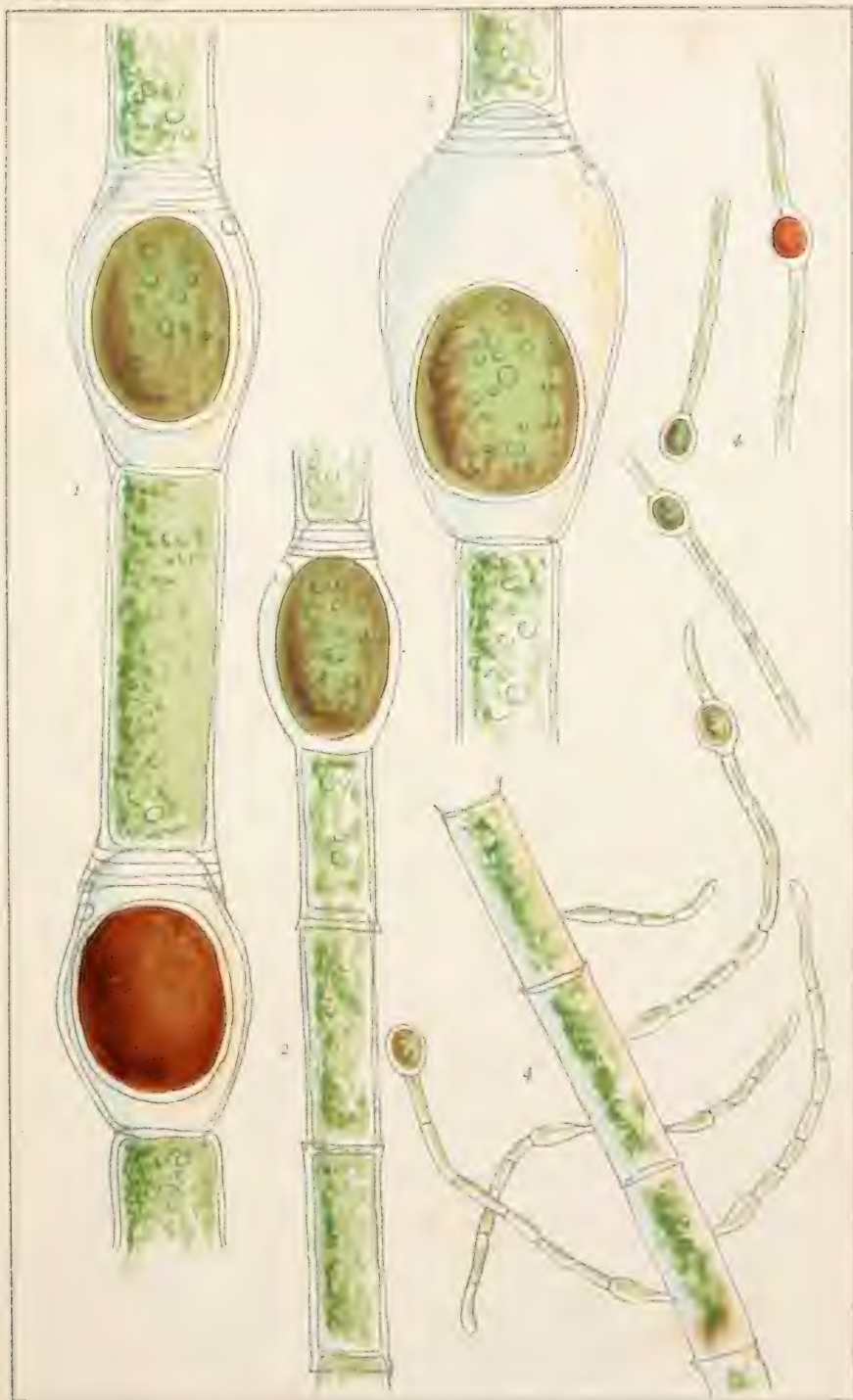
1. *Cedog. Cleveanum* W. 2 *Cedog. echinospermum*, Br. 3. *Cedog. capillare* (L.)
 4. *Cedog. calcareum*, W. 5 *Cedog. cardiacum*.





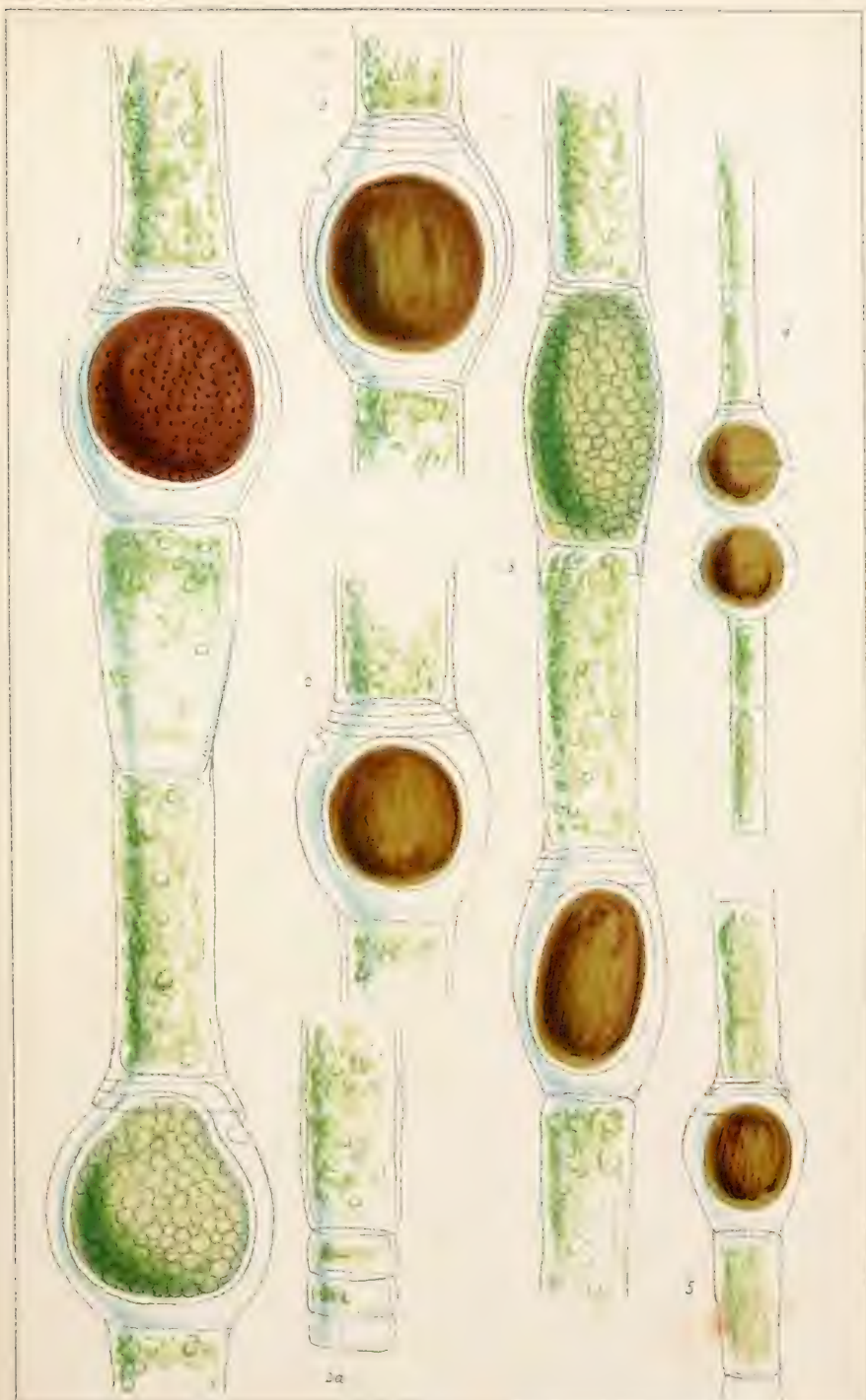
1. *Cedog. carbonicum*. W. 2. *Cedog. Pringsheimii*. W. 3. *Cedog. punctatostriatum* DBy. 4 *Cedog. Boscii*. W. 5. *Cedog. tumidulum*. Kutz.





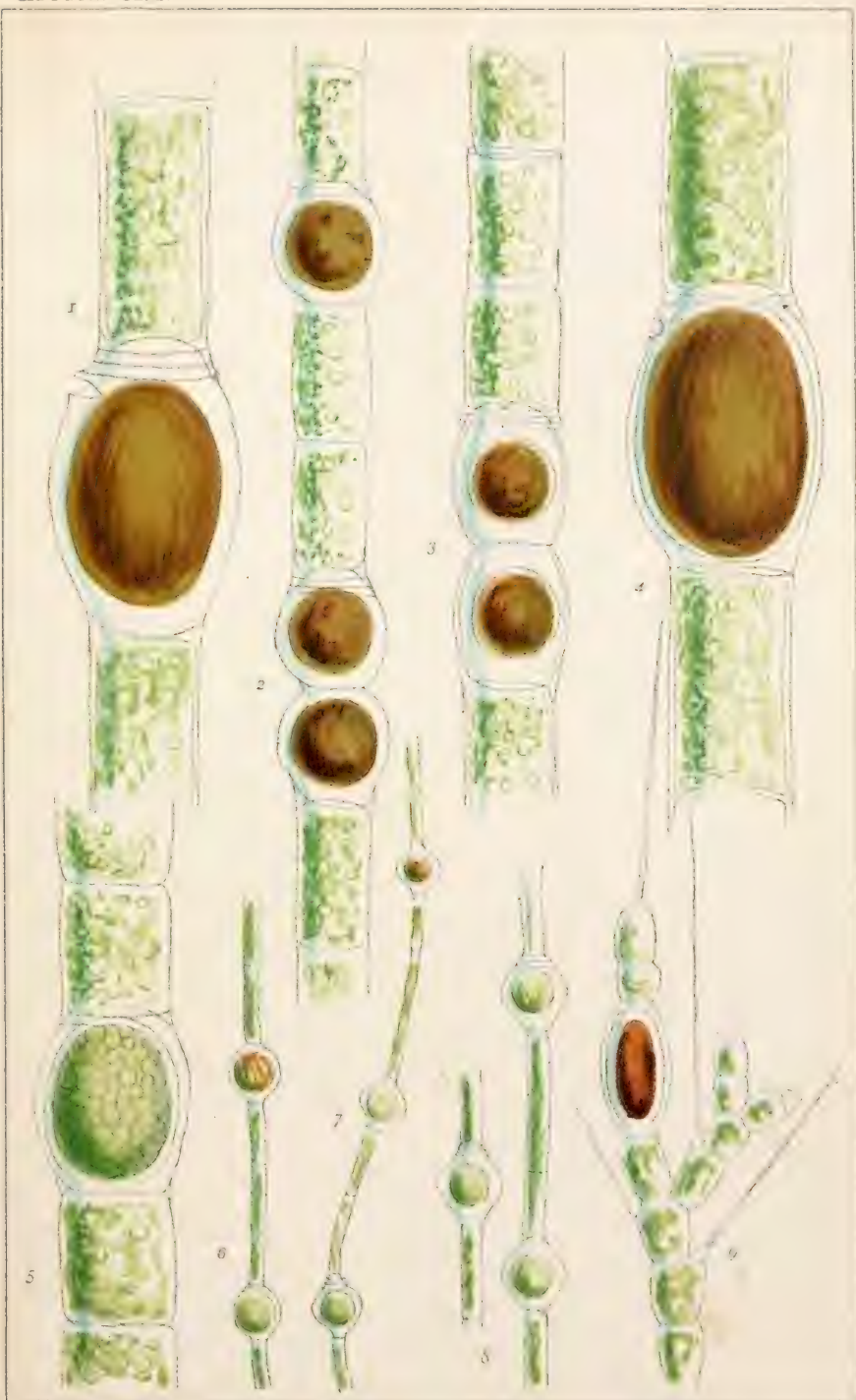
1. *Edog. Landsboroughii*. Hass. 2. variety *gemelliparum*. Pr.
 3. *Edog. rivulare*. Br. 4 *Edog. longatum*. Kutz.





1. *Cedog. Hutchinsiae* W. 2. *Cedog. primoryi* H. 3. *Cedog. grandis* H. 4. *Cedog. Londinense* W. 5. *Cedog. vesicatum* Lyngb.





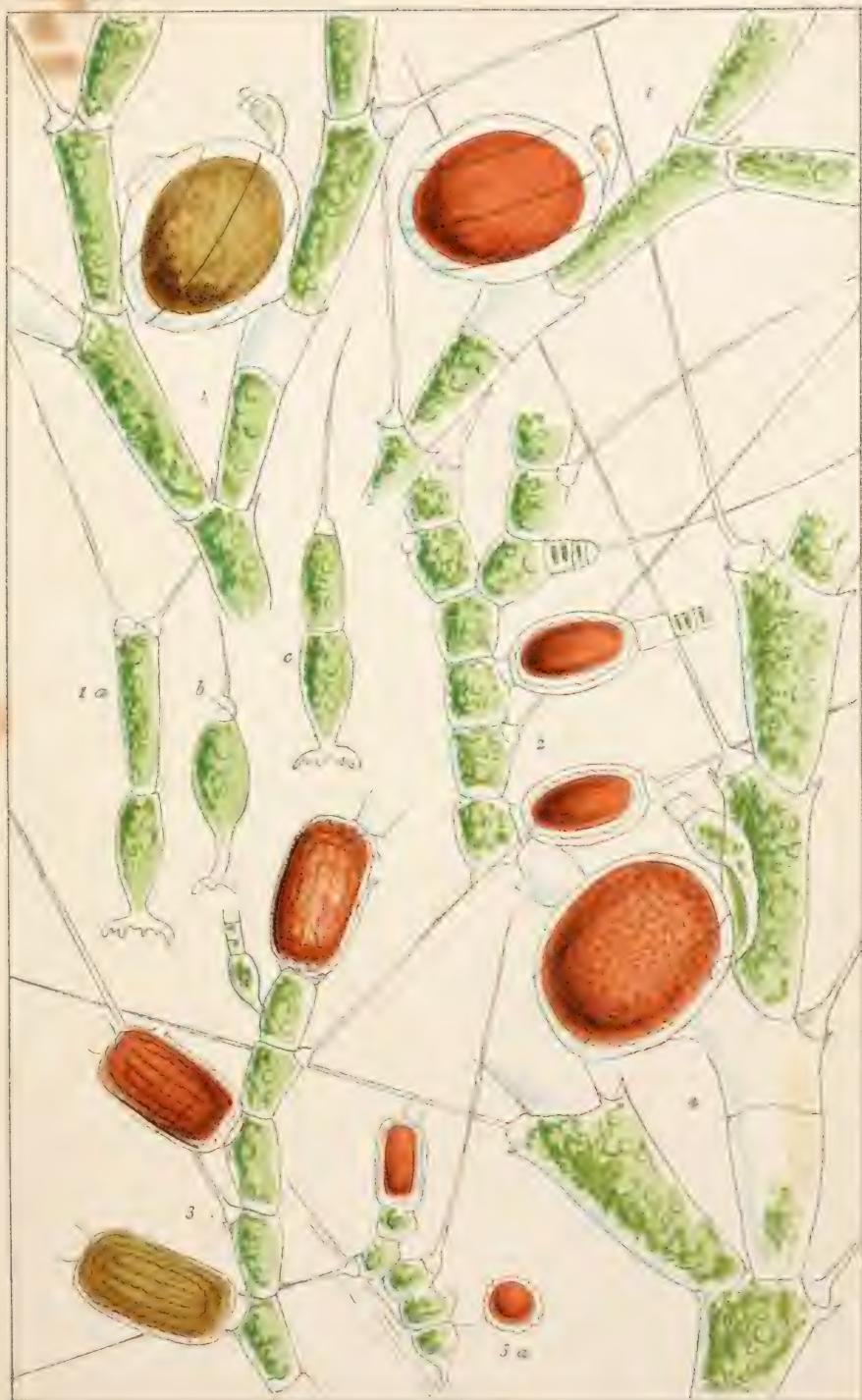
1. *Cedog. crassum* H. v. 2. *Cedog. fasciculatum* K. 3. *Cedog. capillare* K.
 4. *Cedog. granulosum* K. 5. *Cedog. subcapillare* K. 6. *Cedog. tenellum* K.
 7. *Cedog. delicatulum* K. 8. *Cedog. hexagonum* K. 9. *Bulbochæte gracilis* Pr.





1. *Bulbochæte intermediæ*, Oly. 2. *Bulbochæte polyandra*, Oly. 3. *Bulbochæte Brebissonii*, Kütz. 4. *Bulbochæte insignis*, Pr.





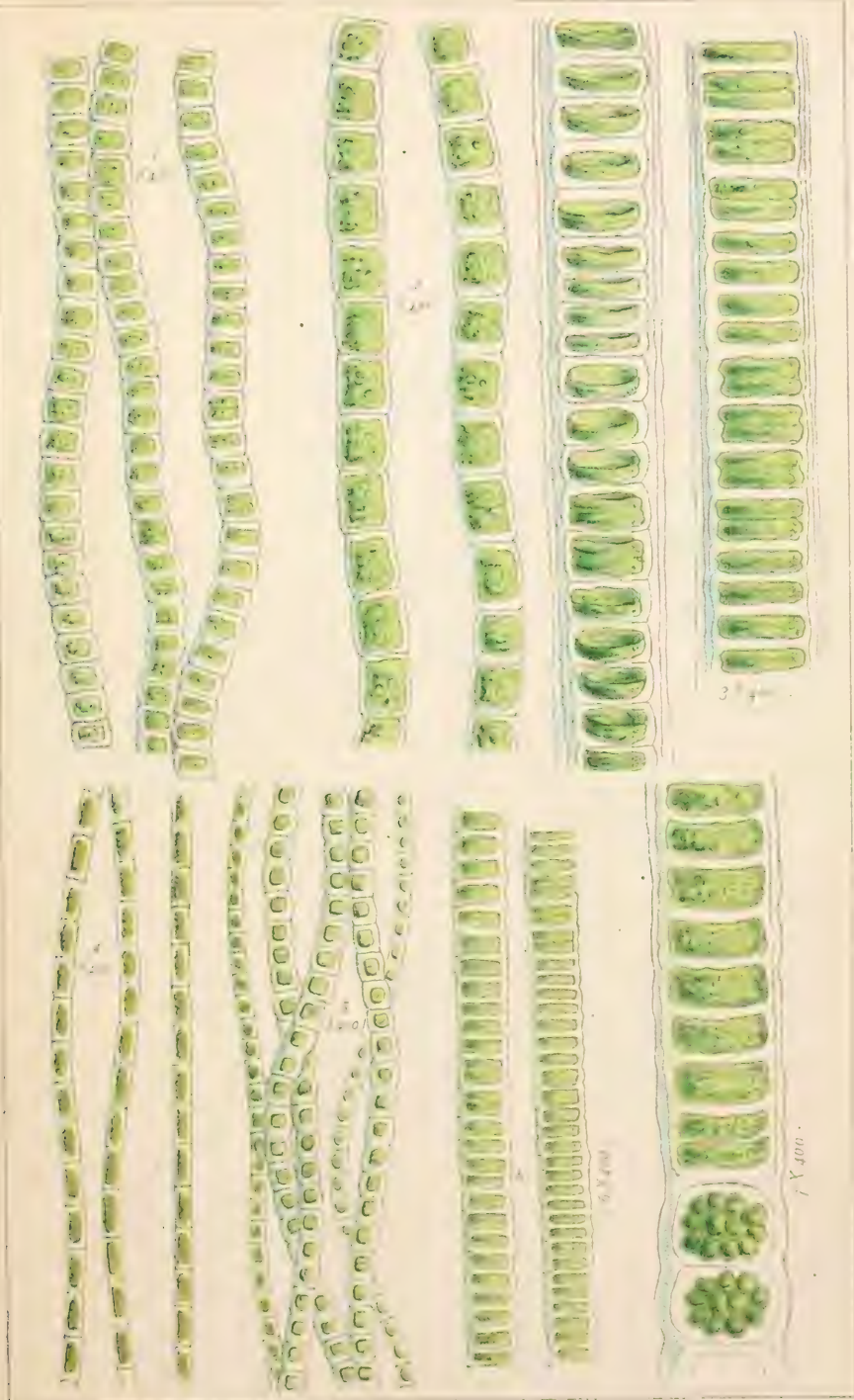
1. *Bulbochaste setigera* Ag. 2. *Bulbochaste mirabilis* W. 3. *Bulbochaste subangularis*.
4. *Bulbochaste gigantea* Pr. 5. *Bulbochaste pygmæa* Pr.





Hormiscia zonata (W. & M.) $\times 400$.

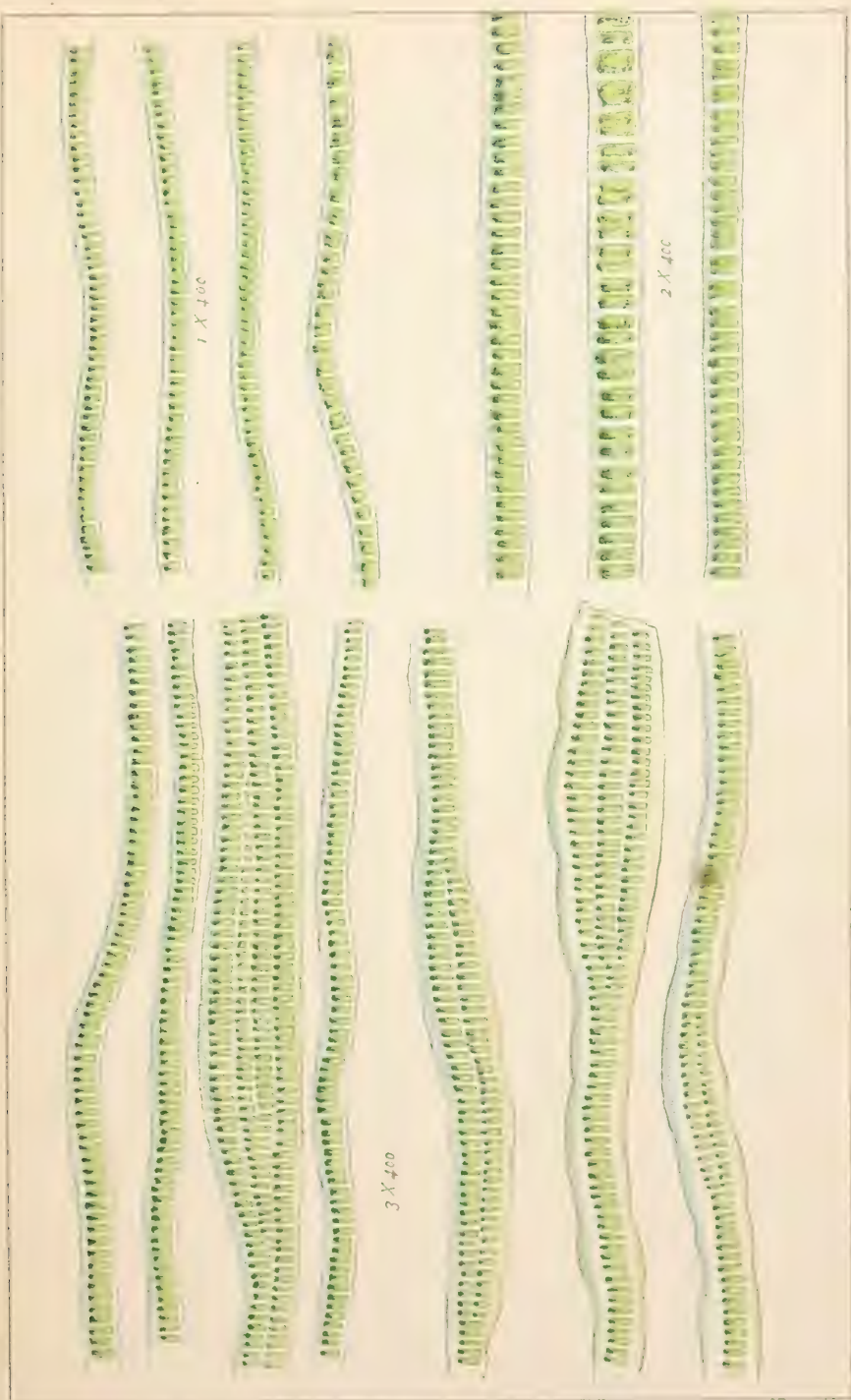




1. *Hormiscia moniliformis*, Kütz. 2. *Hormiscia calaniformis*, Kütz.

3. *Hormiscia speciosa* (Carm.) 4. *Ulothrix variabilis*, Kütz.

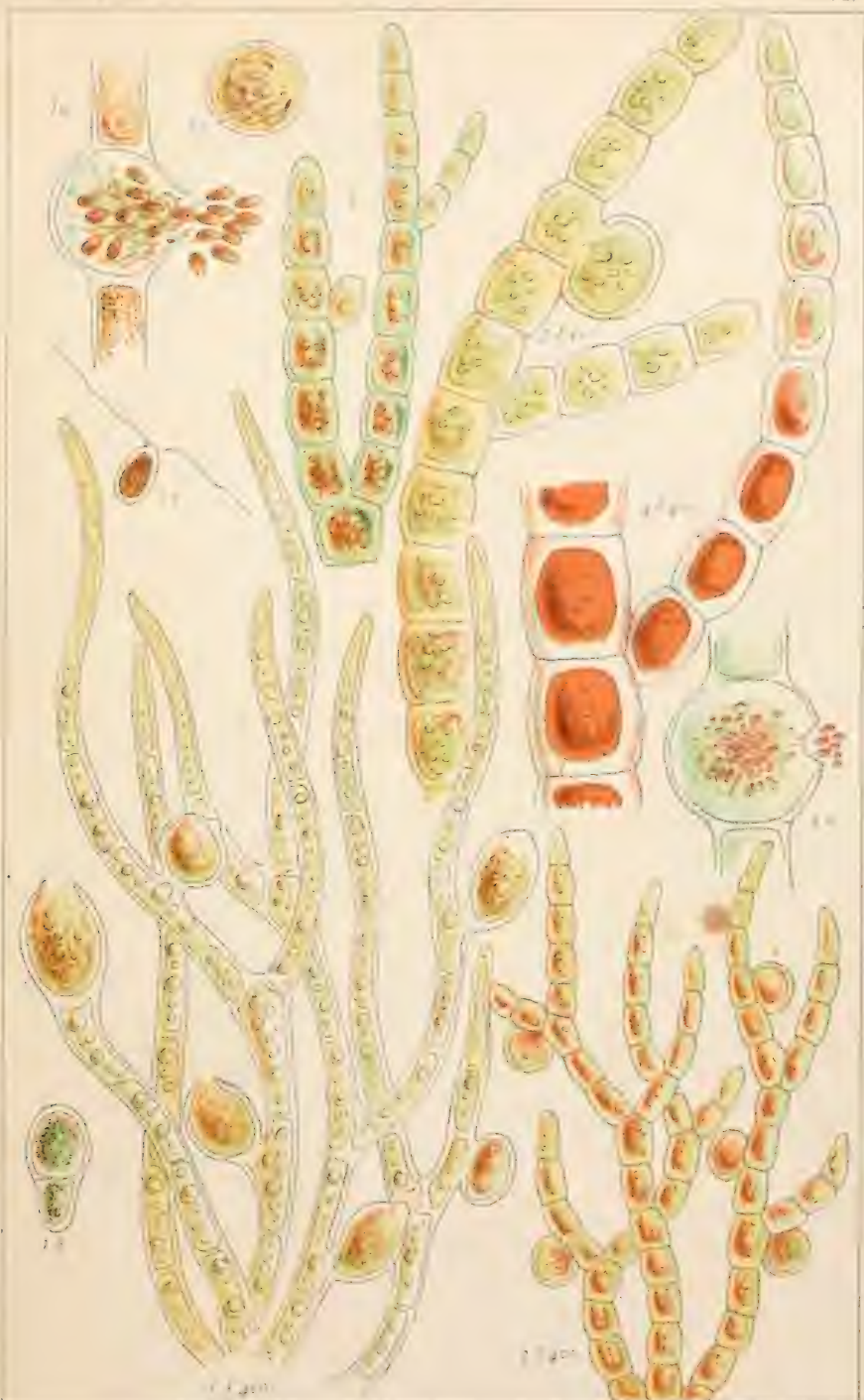
5. *Ulothrix tenuissima*, Kütz. 6. *Ulothrix tenuis*, Kütz. 7. *Hormiscia bicolor*, E.B.



1. *Ulothrix radicans*, Kutz. 2. *Ulothrix parietina*, Kutz.

3. *Schizogonium murale*, Kutz.





1. *Chroolepus aureum*. Linn. 2. *Chroolepus odoratum*. Ag. 3. *Chroolepus abietinum* var. *lichenicolum*. 4. *Chroolepus iolithus*. Linn. 5. *Chroolepus ilicicolum*. H.





1. *Microthamnion vexator*. Cooke. 2 *Stigeoclonium thermale*. Br.
3 *Stigeoclonium tenue*. Ag.





1. *Stigeoclonium protensum*. Kutz. 2. *Stigeoclonium nanum* Kutz.
3. *Stigeoclonium fastigiatum*. Kutz.





1. *Draparnaldia glomerata* Ag. 2 variety *distans*, Kutz.





Draparnaldia plumosa. Ag. 2 variety *pulchella*. Kutz.



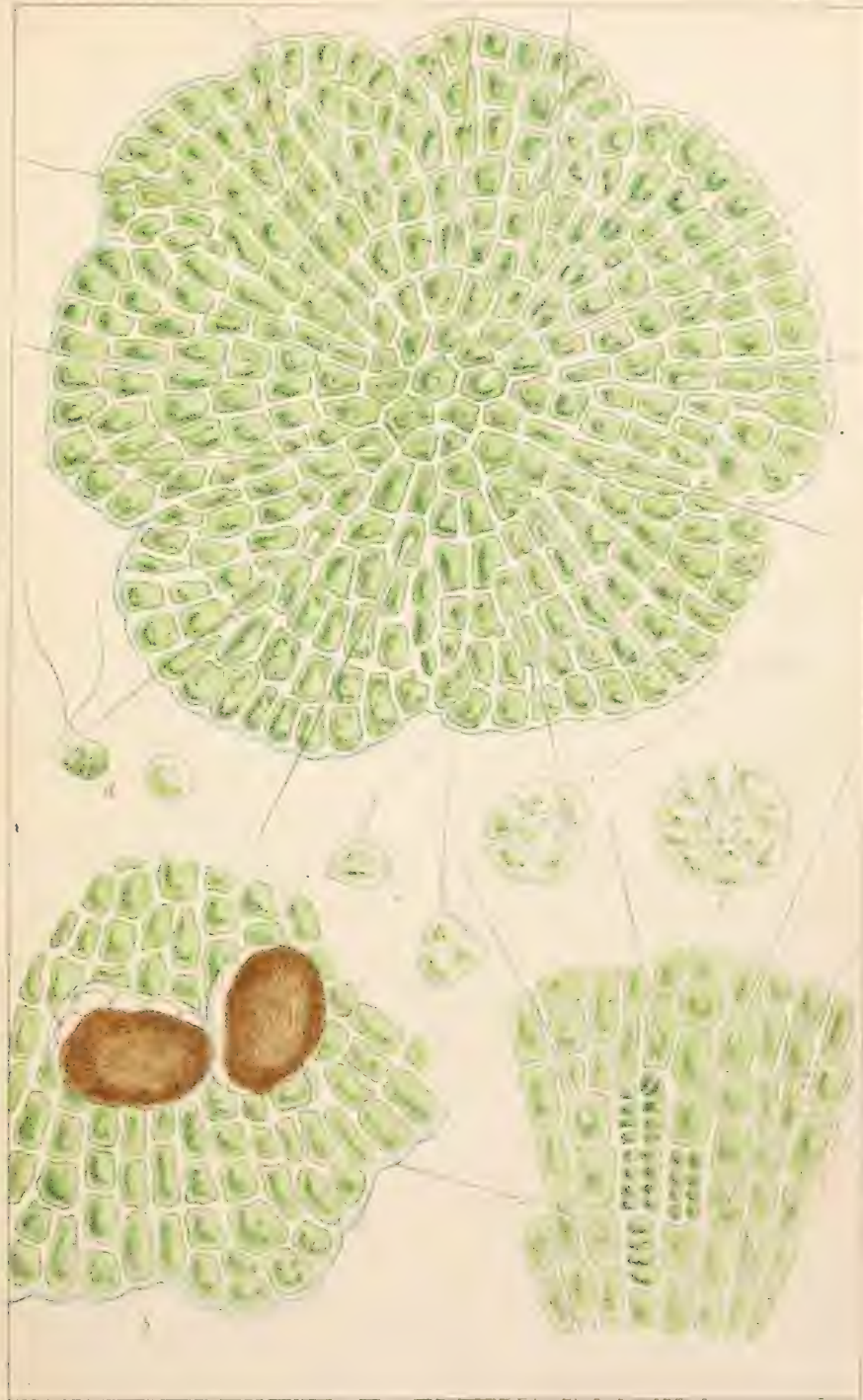


1. *Chætophora pisiformis*. Ag. 2 *Chætophora elegans*. Ag

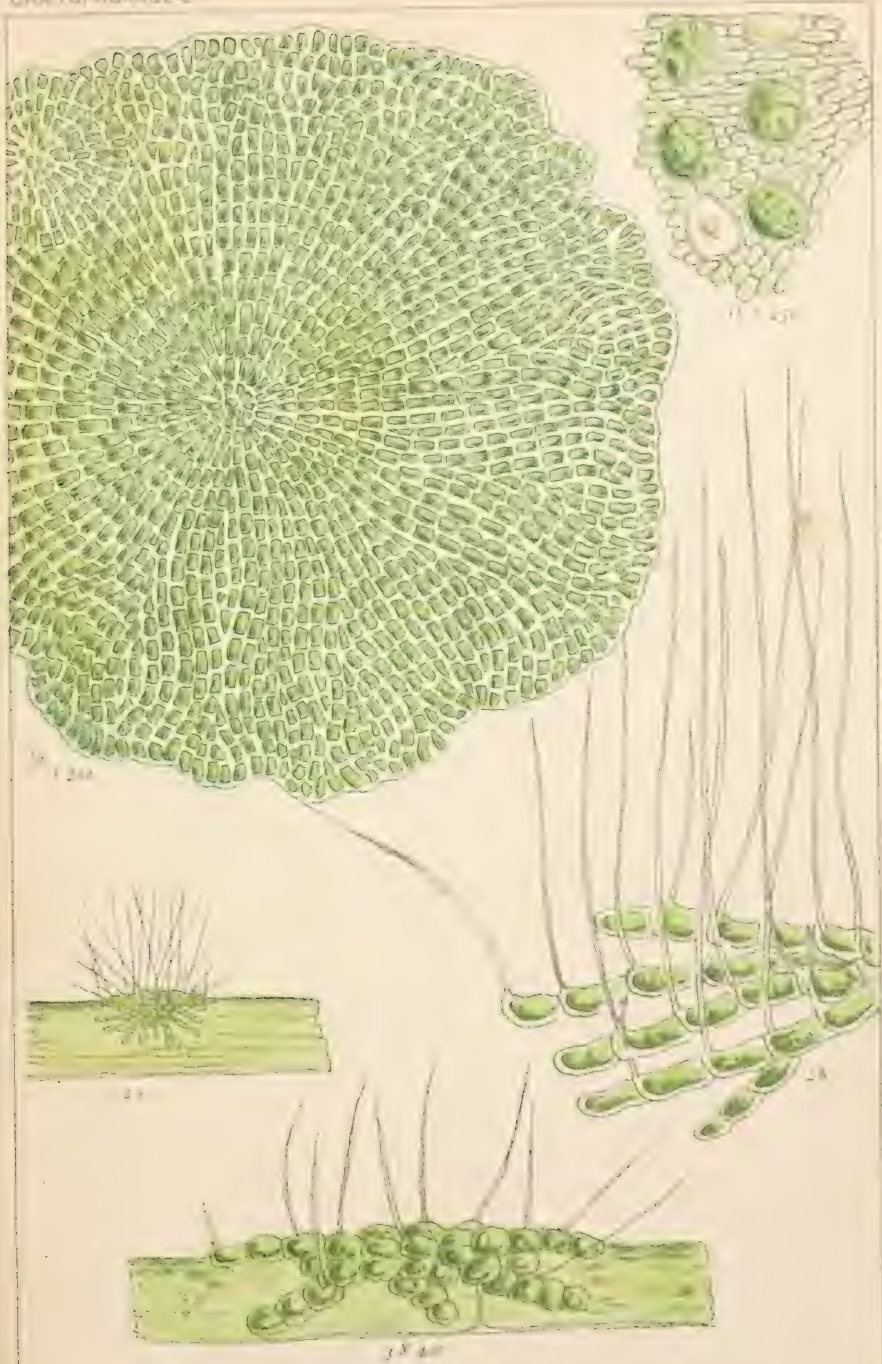




1. *Chatophora tuberculosa* Ag. 2. *Chatophora endivæfolia* Ag.
3. *Coleochaete soluta*, Prings.



Coleochaete scutata. Brev.



1. *Coléochate orbicularis*. Prings. 2. *Aphanochate hystrix*. Thw.
 3. *Aphanochate repens*. Br.





1. *Chytridium acuminatum*. 2. *Olpidium endogenum*. 3. *O. ampullaceum*. 4. allied species.
5-8. *Synchronitrium Taraxaci*. 9-11. *Chlorochytrium Lemnæ*.





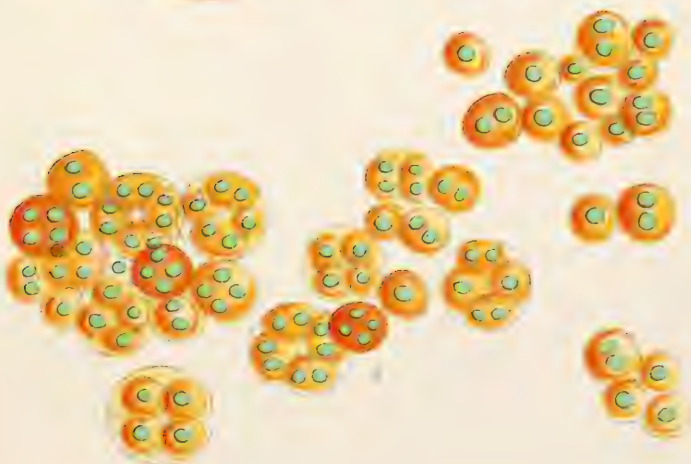
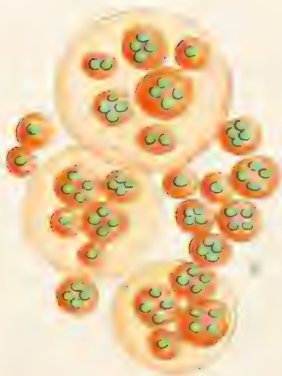
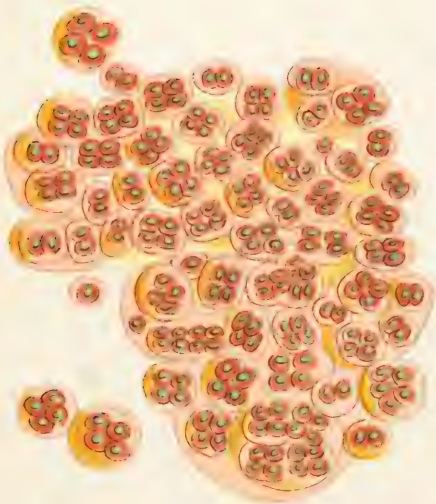
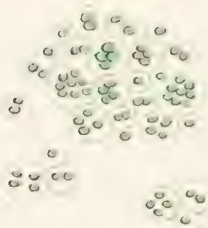
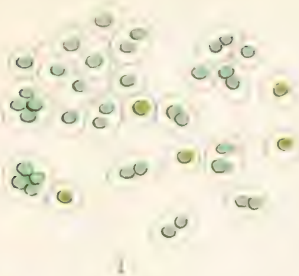
1-6. *Synchytrium Mercurialis*. Fekl. 7-9. *Synchytrium Anemones*. Wor.





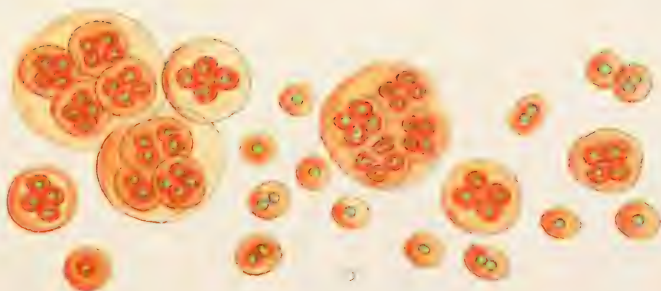
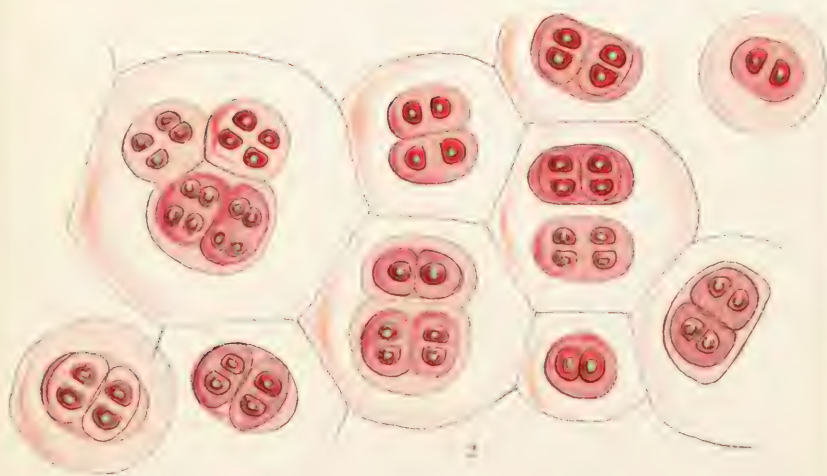
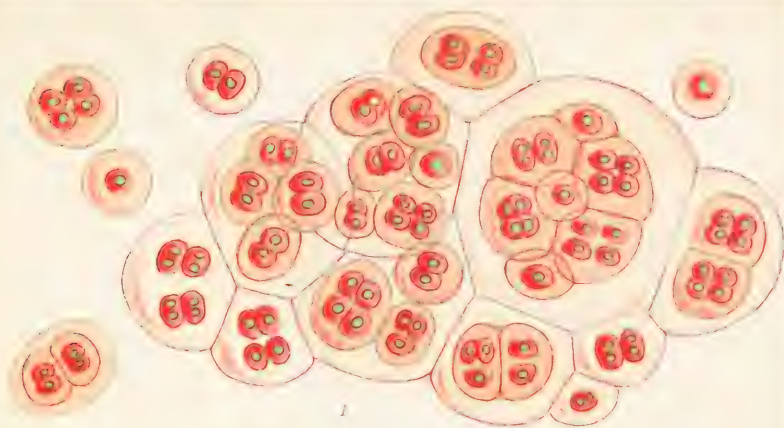
1. *Chroococcus coherens*. Nag. 2. *Chroococcus turgidus*. Nag. 3. *Gleocapsa coracina*. Kutz.
 4. *Gleocapsa atrata*. Rabh. 5. *Gleocapsa livida*. Kutz. 6. *Gleocapsa caldariorum*. Rabh.
 7. *Gleocapsa polydermatica*. Kutz. 8. *Gleocapsa quaternata*. Breb.





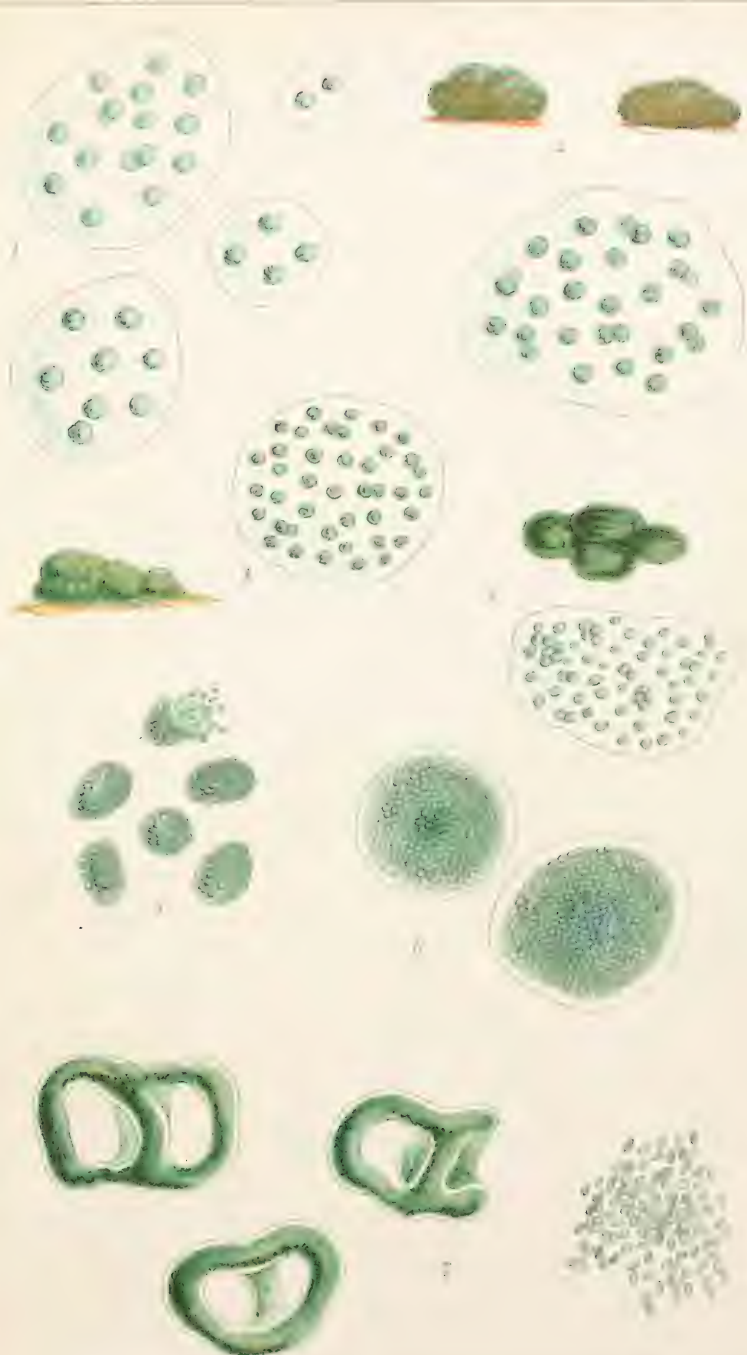
1. *Gleocapsa arenaria*. Rabh. 2. *Gleocapsa aruginosa*. Kütz. 3. *Gleocapsa magma*. Kütz.
4. *Gleocapsa rupicola*. Kütz. 5. *Gleocapsa rupestris*. Kütz.





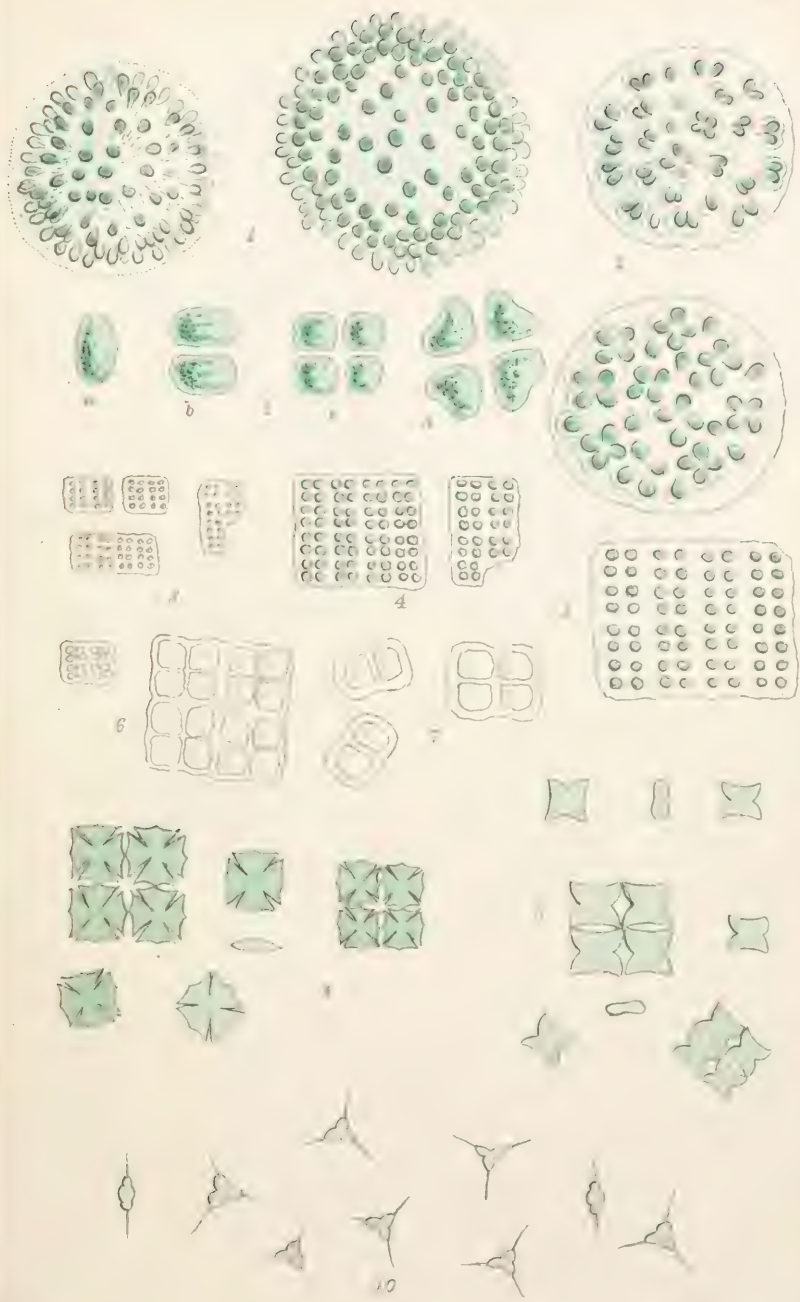
1. *Gloeocapsa sanguinea*. Kutz. 2. *Gloeocapsa Ralfsiana*. Kutz.
3. *Gloeocapsa Shuttleworthiana*. Kutz.





1. *Aphanocapsa virescens*. Rabh. 2. *Aphanocapsa rivularis*. Rabh. 3. *Aphanocapsa Grevillei*. Rabh.
 4. *Aphanocapsa depressa*. Rabh. 5. *Microcystis protozenita*. Rabh. 6. *Microcystis marginata*. Men.
 7. *Clathrocystis æruginosa*. Henfr.





1. *Celosphaerium Kützingerianum*, Nag. 2. *Gomphosphœva aponina*, Putz. 3. *Merismopedia violacea*, Nag. 4. *Merismopedia pinca*, Nag. 5. *M. punctata*, Mey. 6. *Merismopedia ventricosa*, Nag. 7. *M. renis*, Dabbs. 8. *Tetrapedia Cruz-Michelii*, R. 9. *Tetrapedia Reuschiana*, Ar. 10. *Tetrapedia setigera*, Ar.





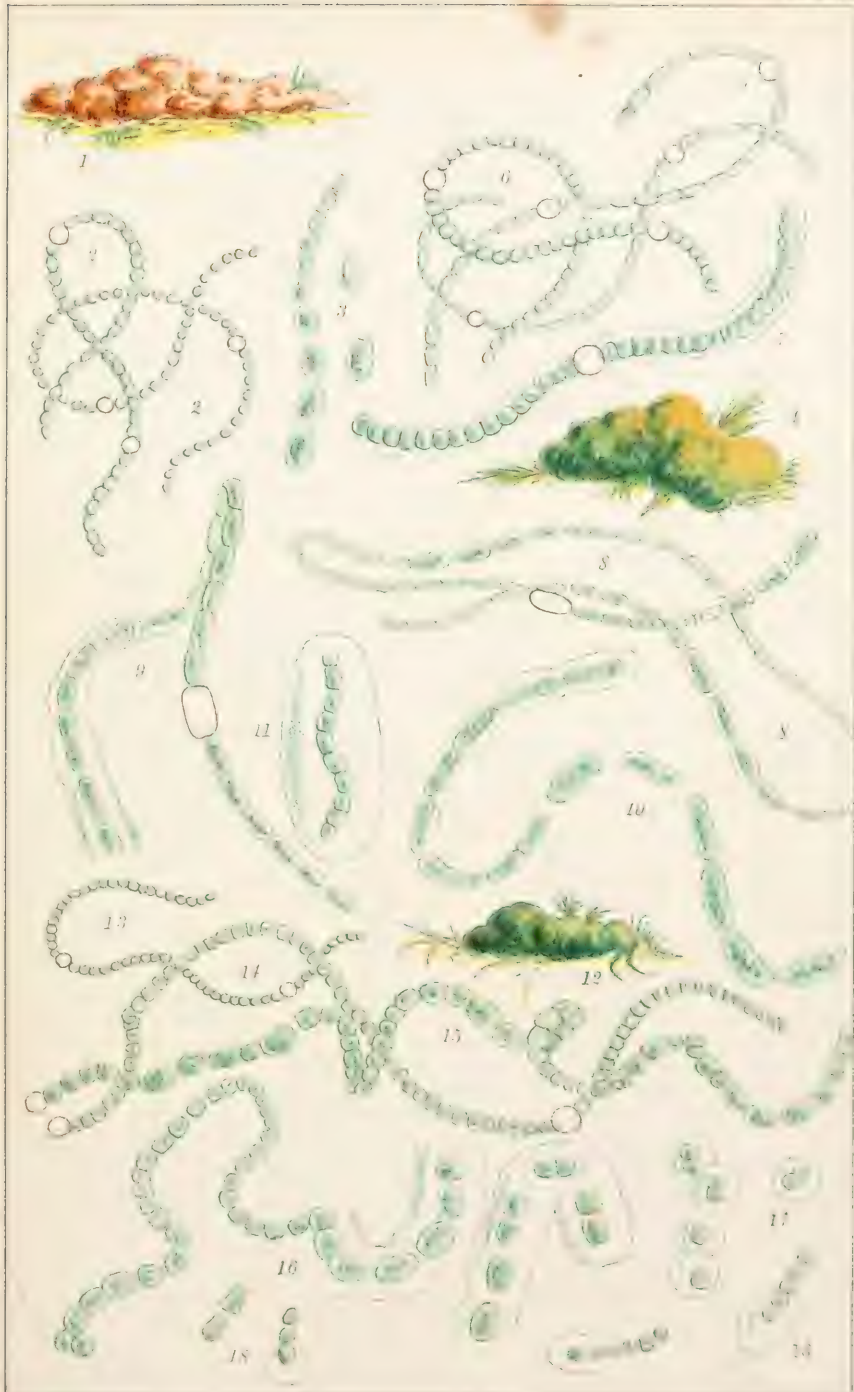
1. *Gleichenia rustica*, Bähk. 2. *Gleichenia arvensis*, Bähk. 3. *Isaetia macrospora*, Br.
 4. *Aphanothece stagnina*, Br. 5. *Homalococcus Hassallii*, Kütz.





1—11. *Nostoc Linckia*. Born. 12—15. *Nostoc piscinale*. Kutz.





1—3. *Nostoc carneum*. Ag. 4—7. *Nostoc spongiaforme*. Ag.
 8—11. *Nostoc ellipsosporum*. Desm. 12—18. *Nostoc muscorum*: Ag.





1—3. *Nostoc humifusum*. Carm.
8—11. *Nostoc sphaericum*. Vauch.

4—7. *Nostoc commune*. Vauch.
12—15. *Nostoc rupestre*. Kutz.





1—3. *Nostoc macrosporum*. Men. 4—6. *Nostoc cæruleum*. Lyngh.
 7—9. *Nostoc pruniforme*. Ag. 10—17. *Nostoc verrucosum*. Vauch.





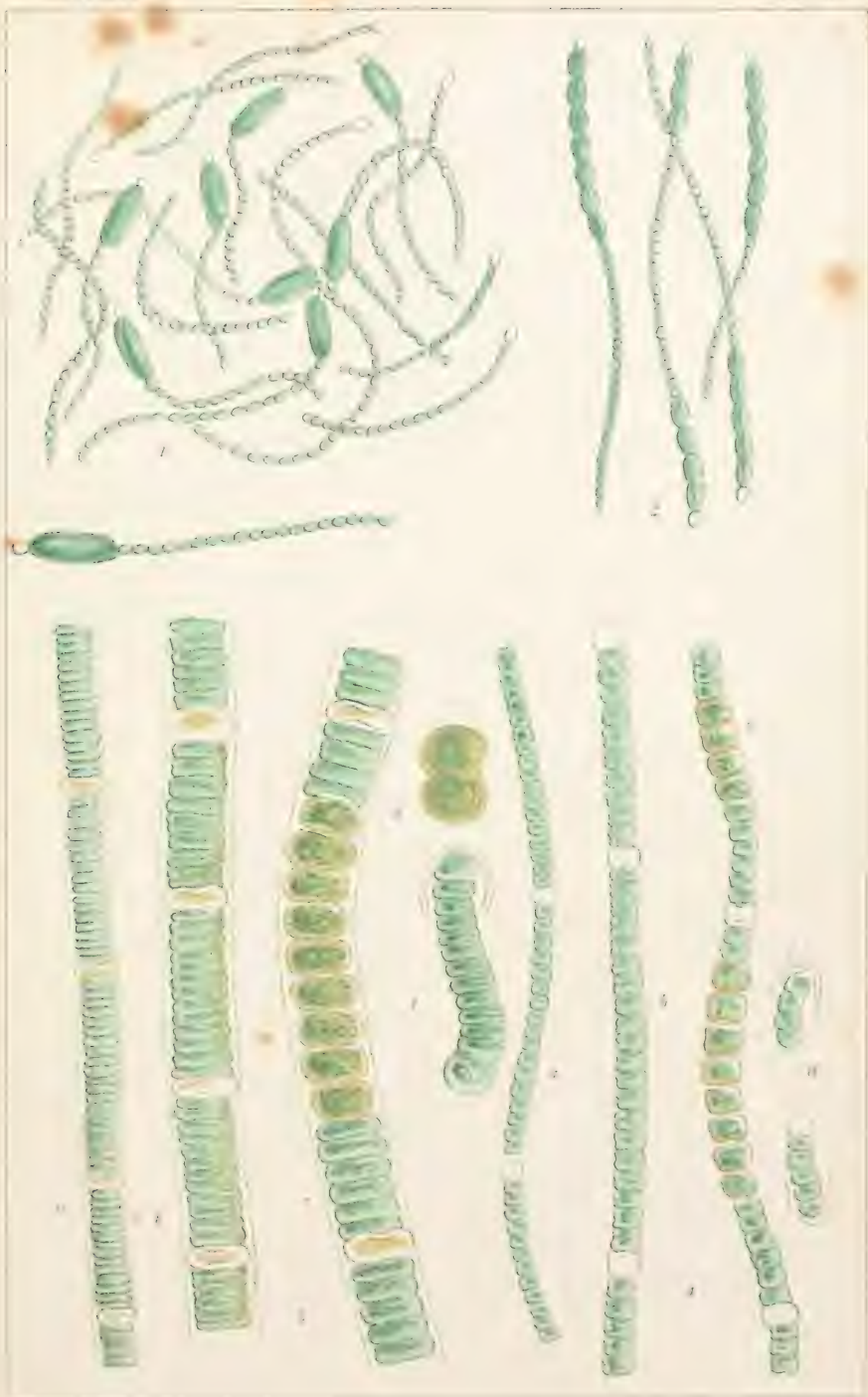
1. *Anabaena flos-aquæ*, Fr. 2. *Anabaena variabilis*, K. 3. *Anabaena Hassallii*, N. & W.
 4. *Anabaena inaequalis*, (Ralfs.) 5. *Anabaena Thwaitesii*, (Ralfs.) 6. *Anabaena oscillarioides*, (Bory.)
 7. *Anabaena Smithii*, (Ralfs.)





1. *Anabaena* Ralfs. (Kütz.) 2. *Aploecyemonon* flos-aquæ. Morr. 3. *Sphærozyga* Carrickylei. H. v.
 4. *Sphærozyga* E. coli. (Thur.) 5. *Sphærozyga* Jacobi. Ralfs. 6. *Sphærozyga* Mooreana. Ralfs.
 7. *Sphærozyga* (Thur.) Ralfs. 8. *Sphærozyga* leptosperma. Ralfs. 9. *Sphærozyga* Berkeleyana. Thwaites.





1. *Cyindrospermum microsperrum*, Desm. 2. *Cyindrospermum catenatum*, Ralfs.
 3. *Nodularia litorea*, Thur. 4. *Nodularia Harveyana*, Thur.





1. *Spirulina Jenneri*, K. 2. *Spirulina tenuissima*, K. 3. *Spirulina oscillarioides*, Turp.
 4. *Oscillaria tenerrima*, K. 5. *O. leptotricha*, K. 6. variety, *splendida*, Grev.
 7. *O. subfusca*, Vauch. 8. *O. tenuis*, Ag.





1. *Oscillaria tenuis*, var. *viridis*. 2. *O. antliaria*, Jurg. 3. *O. limosa*, Ag.
4. *O. limosa*, var. *chalybea*, K. 5. *O. irrigua*, K. 6. *O. nigra*, Vauch.
7. *O. Frolichii*, Kutz.





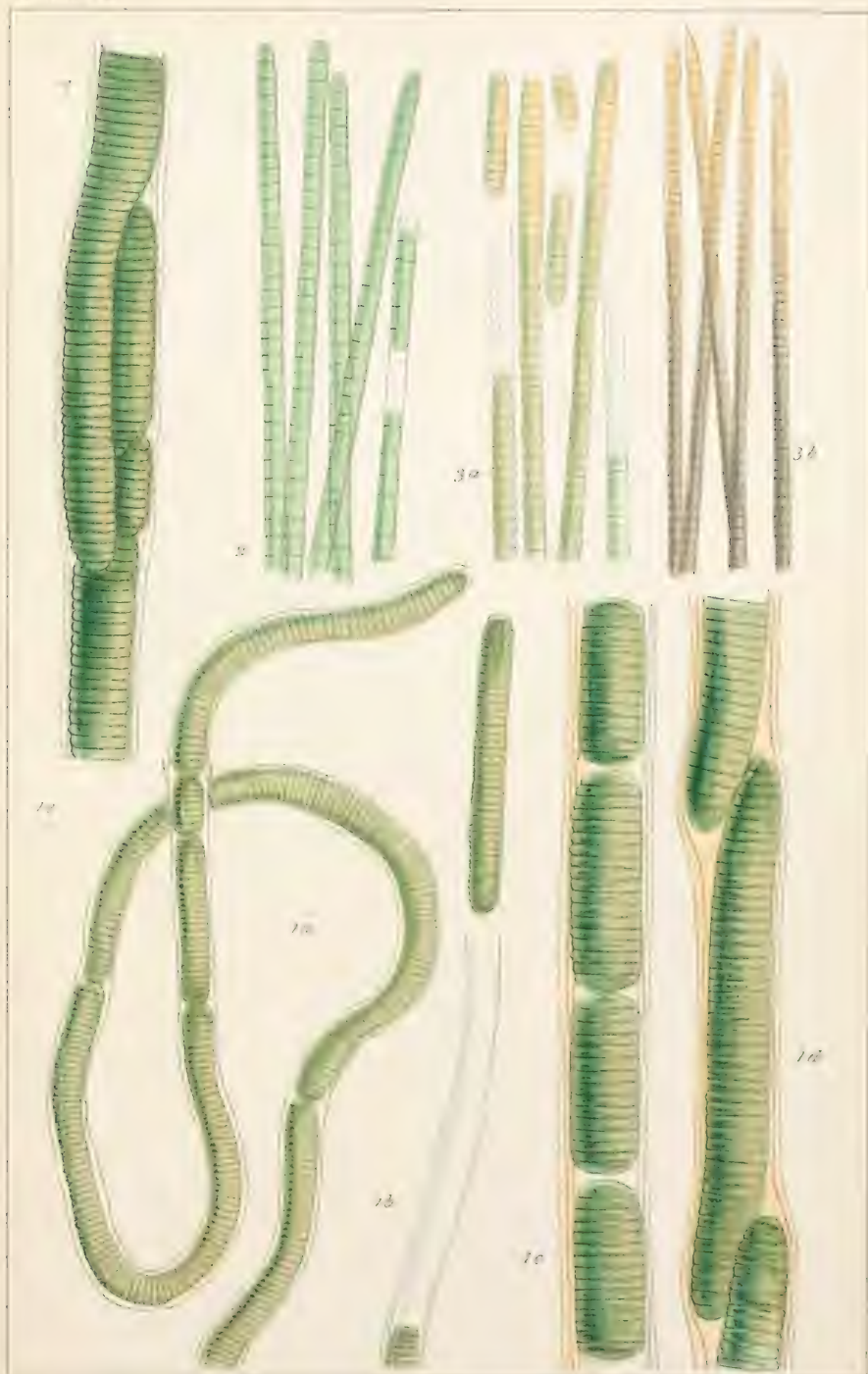
1. *Oscillaria chalybea*, Mert. 2. *O. nigro-viridis*, Harv. 3. *O. subuliformis*, Harv.
 4. *O. insignis*, Harv. 5. *O. crugosa*, Harv. 6. *O. violacea*, Johnst.
 7. *O. spiralis*, Carm. 8. *O. fuscorum*, Carm.



1. *Microcoleus gracilis*. Hass. 2. *Microcoleus terrestris*. Desm.



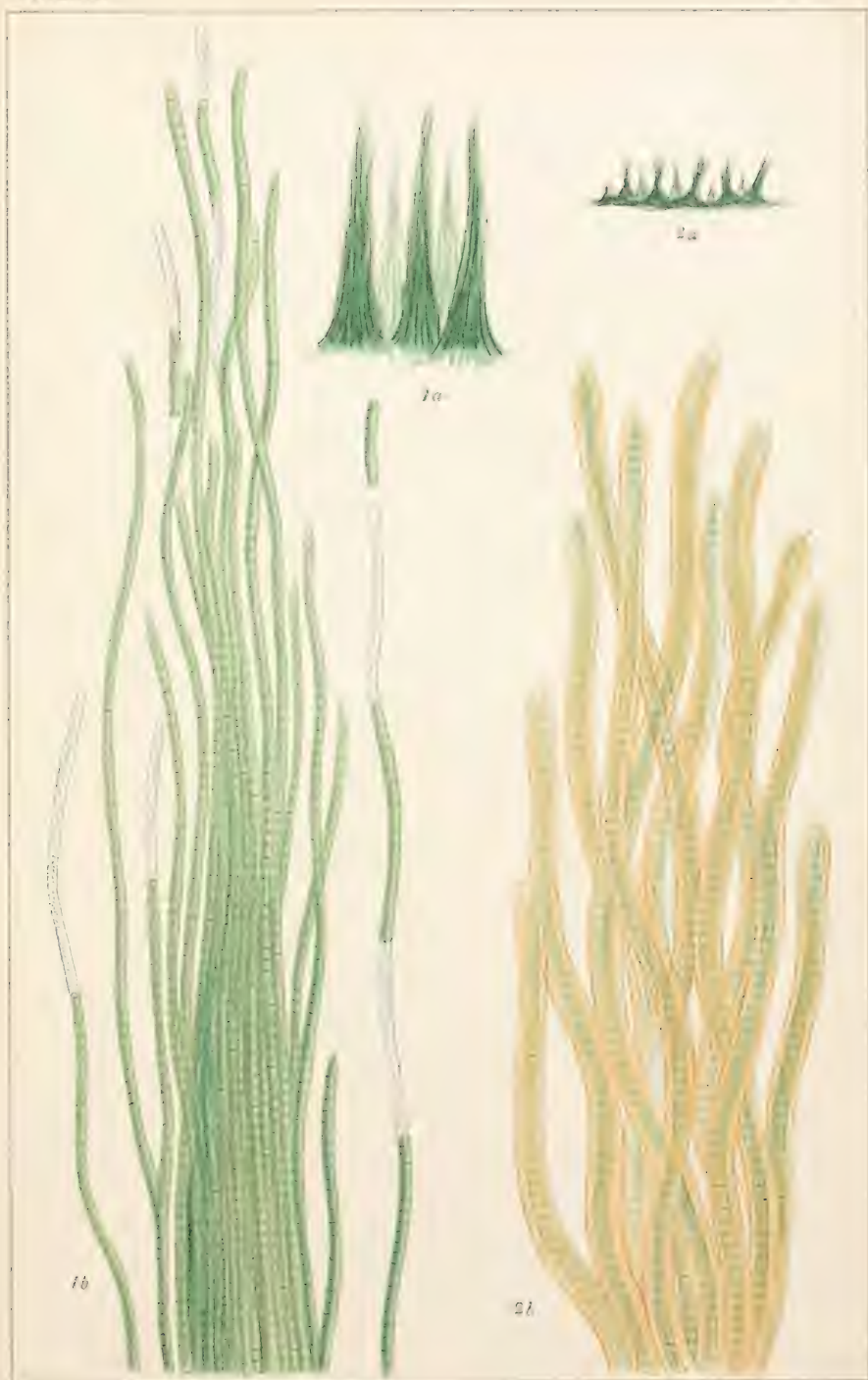
1. *Microcoleus chthonoplastes*. Thur. 2. *Inactis Cresswelli*. Thur.
3. *Inactis tinctoria*. Thur.



1. *Lyngbya aestuarii*. Lieb. 2. *Lyngbya rupestris*. Ag.
3. a. b. *Lyngbya subfusca*. Ag.



1. *Lyngbya littoralis*. (Carm.) *Lyngbya corium*. (Ag.) 3. *Lyngbya turfosa*. (Carm.)
 4. *Lyngbya ochracea*. Thier. 5. *Lyngbya vulgaris*. K. 6. *Lyngbya vulgaris*. var. *myochroa*.
 7. *Lyngbya papillina*. K. 8. *Lyngbya inundata*. K.

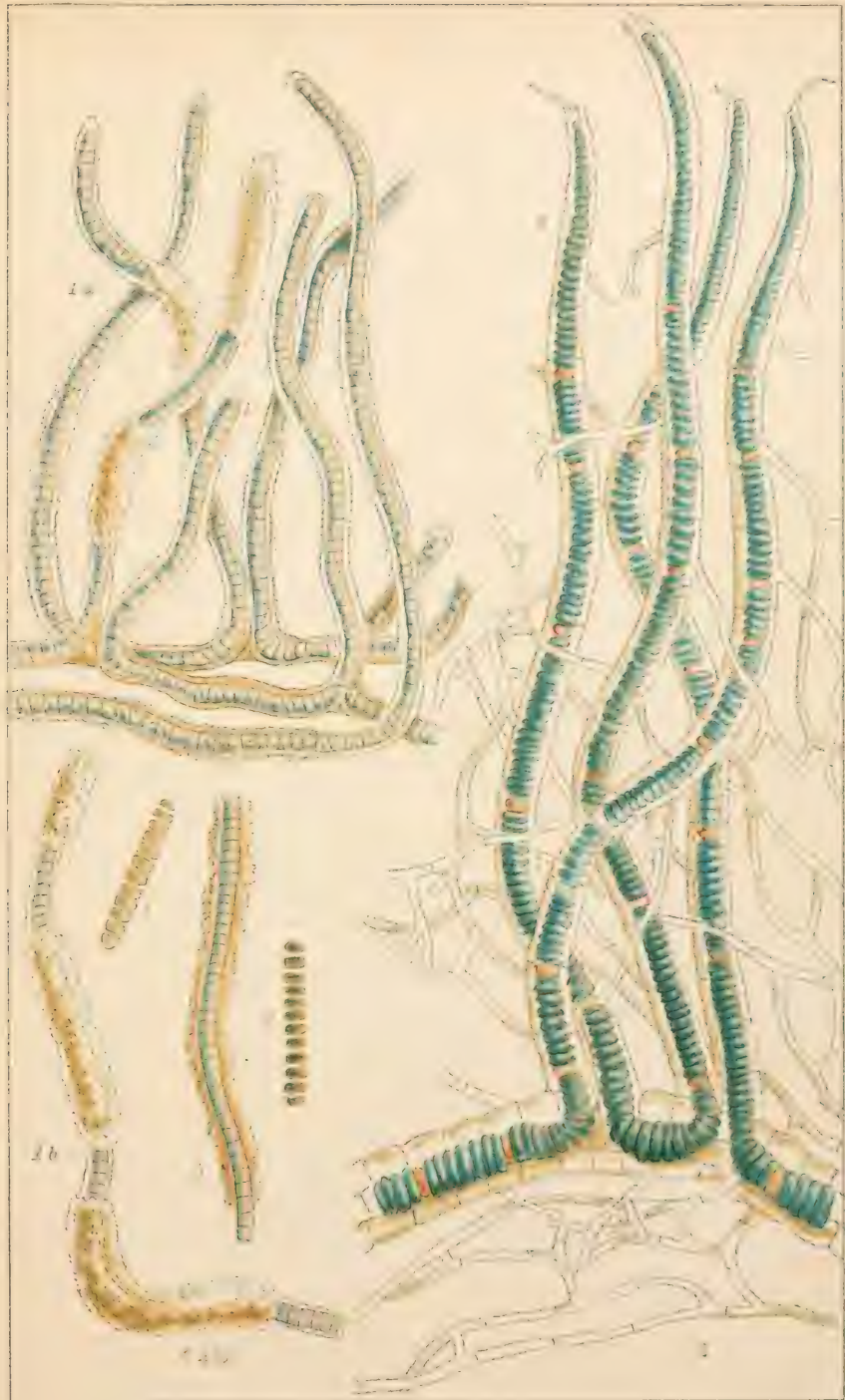


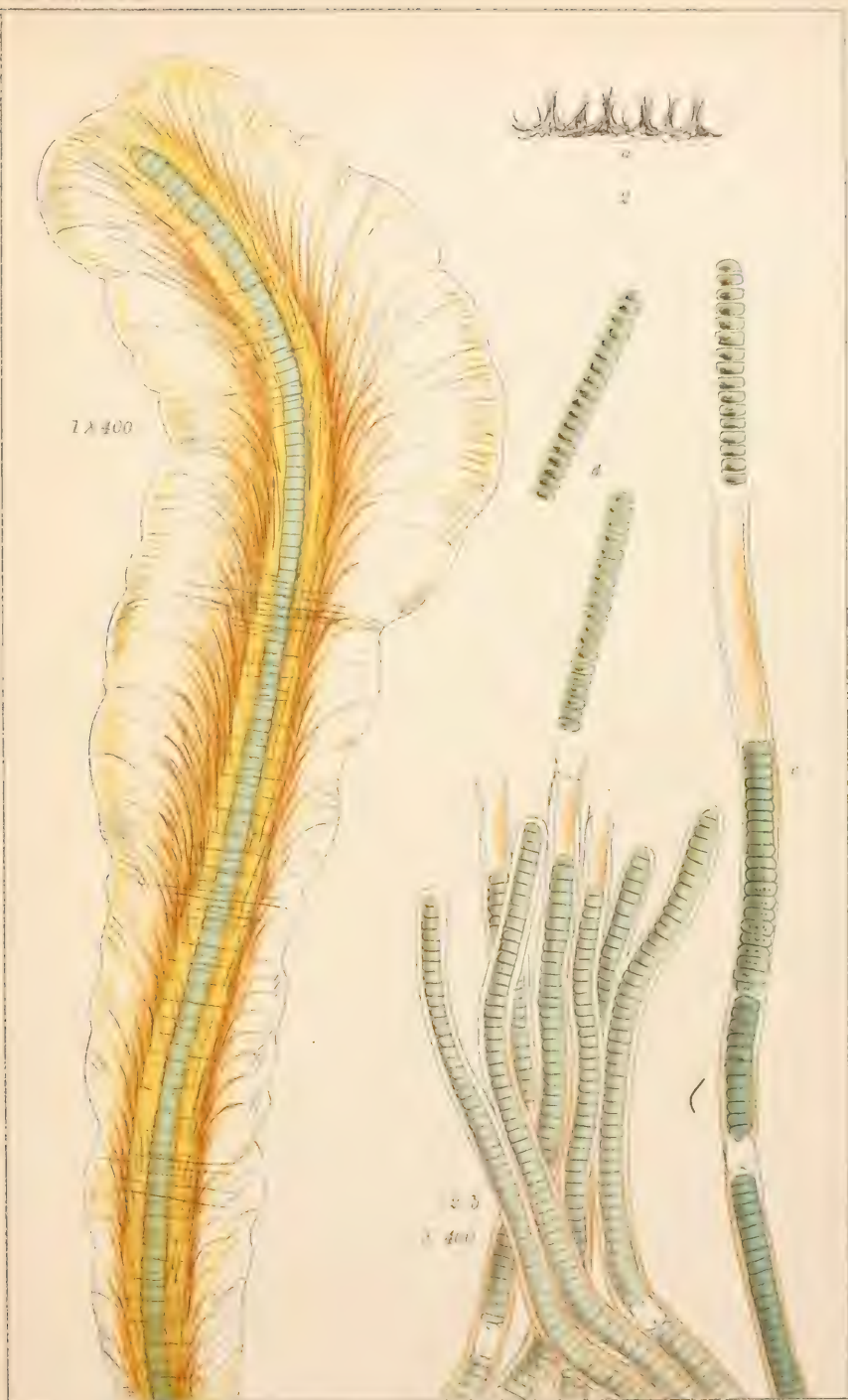
1. *Symplocos Ralsiana*, Kutz. 2. *Symplocos lucifuga*, Harr.



1. *Plectonema mirabile*. Thur. 2. *Plectonema Kirchneri*. Cooke.

1. *Scytonema myochroun*. Ag.2. *Scytonema natans*. Breb.

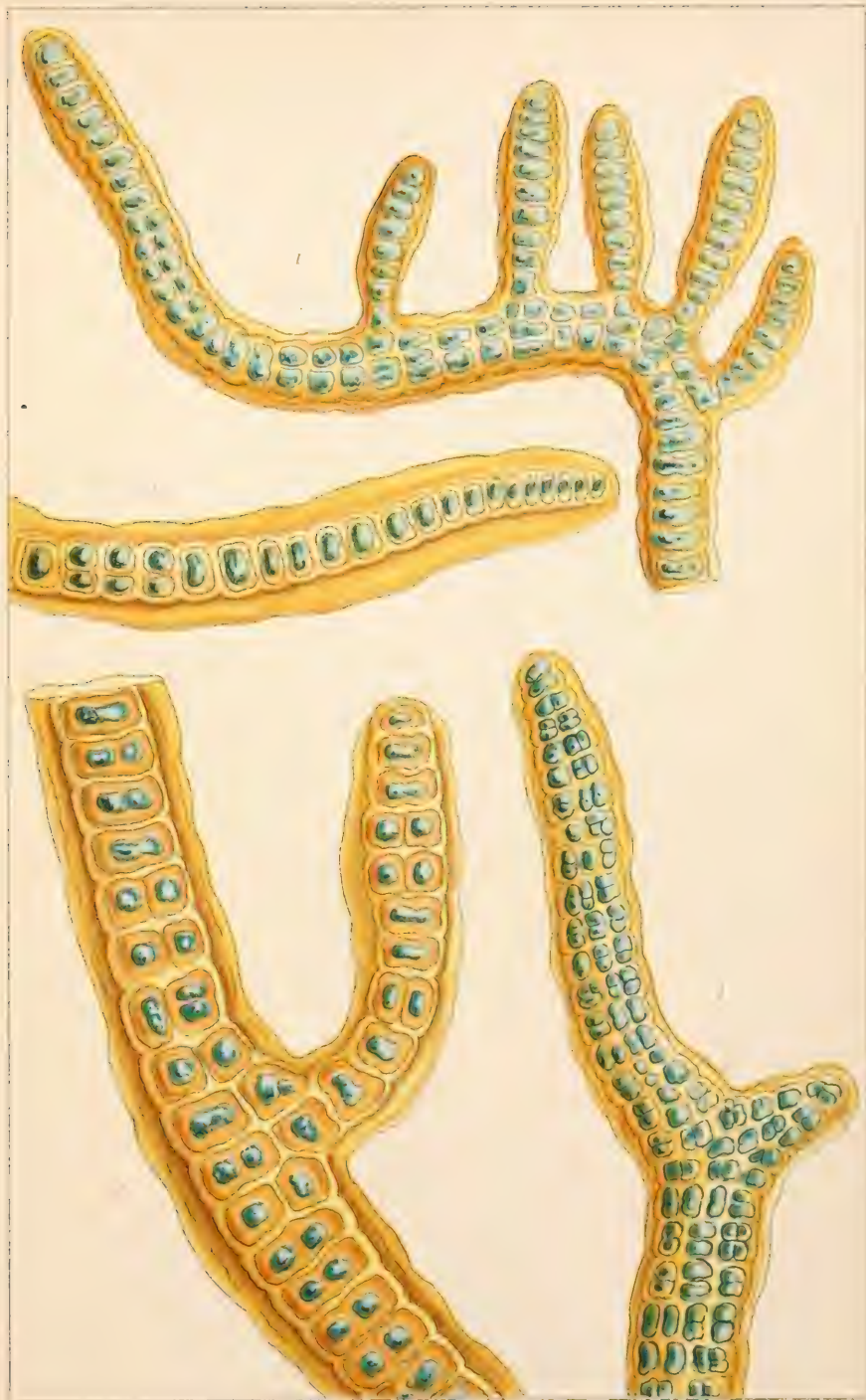
1. *Scytonema cinereum*. Fütz.2. *Scytonema interruptum* (Carm.).

1. *Petalonema alatum*, Berk.2. *Symphyosiphon Hoffmanni*, (Hoffm.)

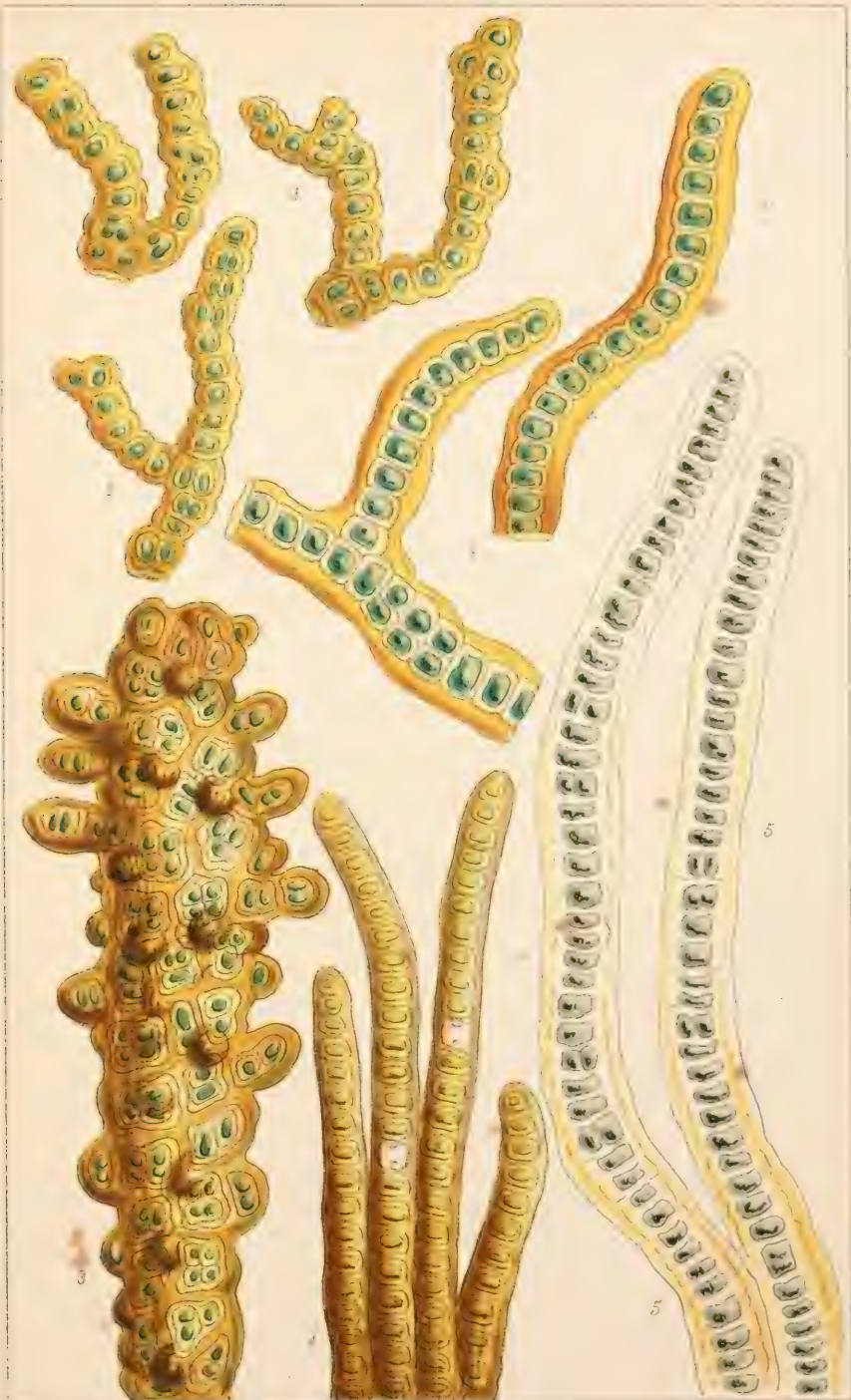
1. *Tolypothrix flaccida*. (Ag.)2. *Tolypothrix distorta*. Kütz.3. *Tolypothrix cirrhosa* (Carm.).



1. *Tolypothrix agagropila*, Kutz. 2. *Tolypothrix agagropila*, var. *pygmaea*, Kutz.
3. *Tolypothrix coactilis*, Kutz.

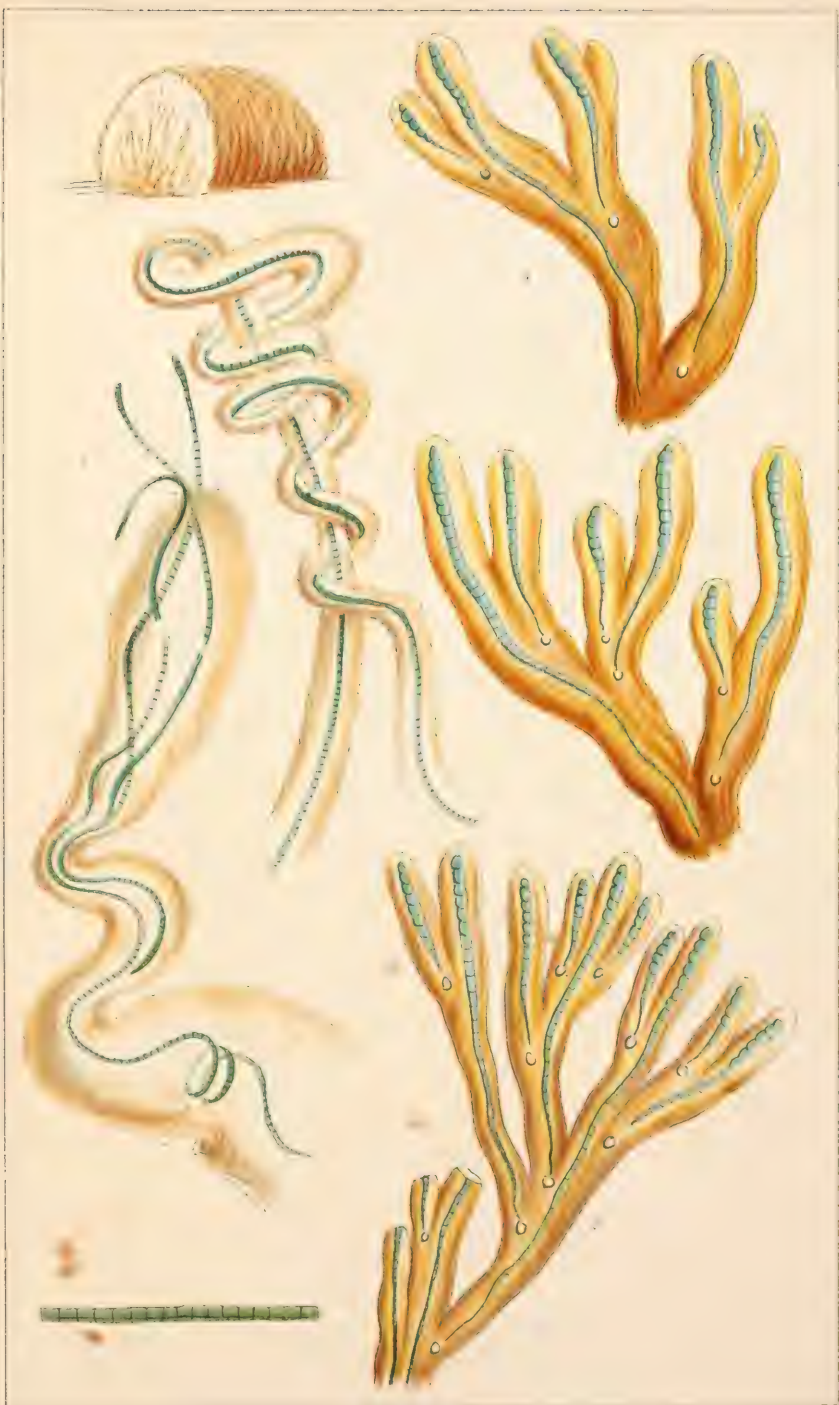


1. *Scytonema minutum* (Ag.). 2. *Scytonema ocellatum* (Dill).
 3. *Scytonema Bouteillei* (Breb.). 4. *Scytonema panniforme* (Ag.).

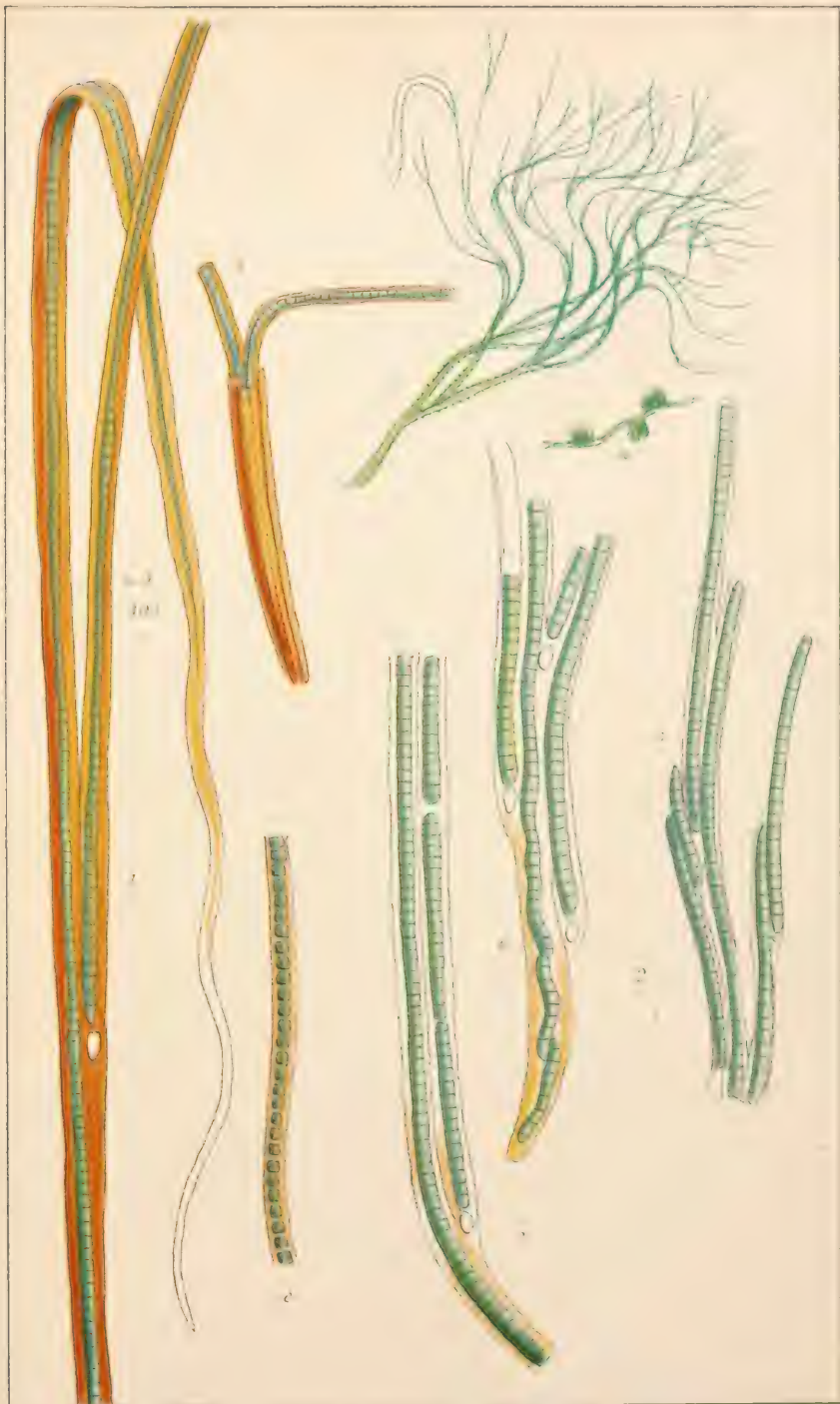


1. *Scytonema saxicola* Nag.
2. *Scytonema turfaceum* (Link)
3. *Scytonema mamillosum*, Ag.
4. *Scytonema compactum*, Ag.
5. *Hapalosiphon byssoides* Thur.



1. *Dasygloia amorpha*. Thw.2. *Petronema fruticulosum*. Thw.3. *Seytonema crustaceum*. Ag.



1. *Calothrix Orsiniana*. Thur.2. *Calothrix Dillwynii*. Berk.



1. *Isactis plana*. Thur.

2. *Ricularia echinata*. (Eng. Bot.)



1. *Rivularia granulifera*. Carm.

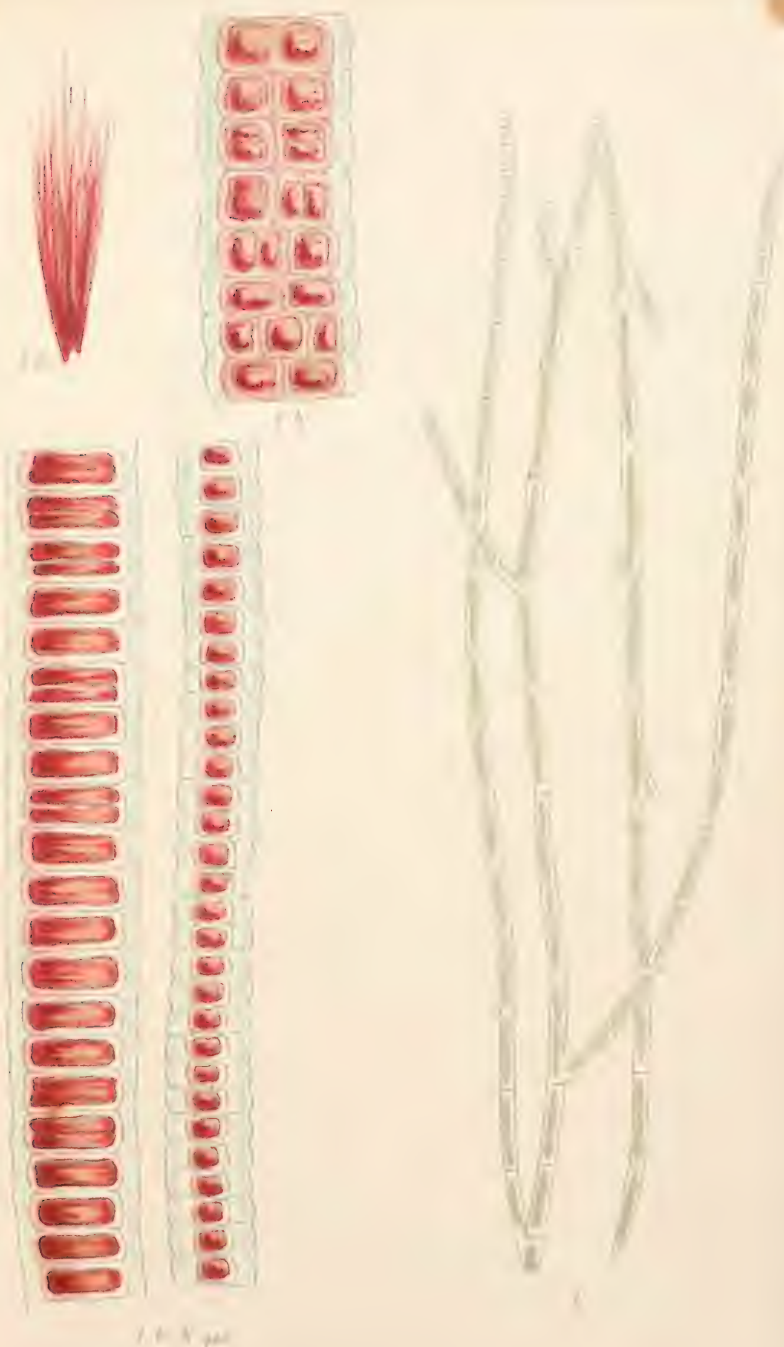
2. *Rivularia dura*. Kut..





1. *Gleotrichia natans*. Thur. 2. *Gleotrichia pisum*. (Ag.)
 3. *Rivularia calcarea*. Eng. Bot.



1. *Bangia atropurpurea*. (Dillw.)2. *Chantransia scotica*. Kütz.



1. *Chroomela rubra*. J. Ag.2. *Chroomela Hermannii*. Ag.



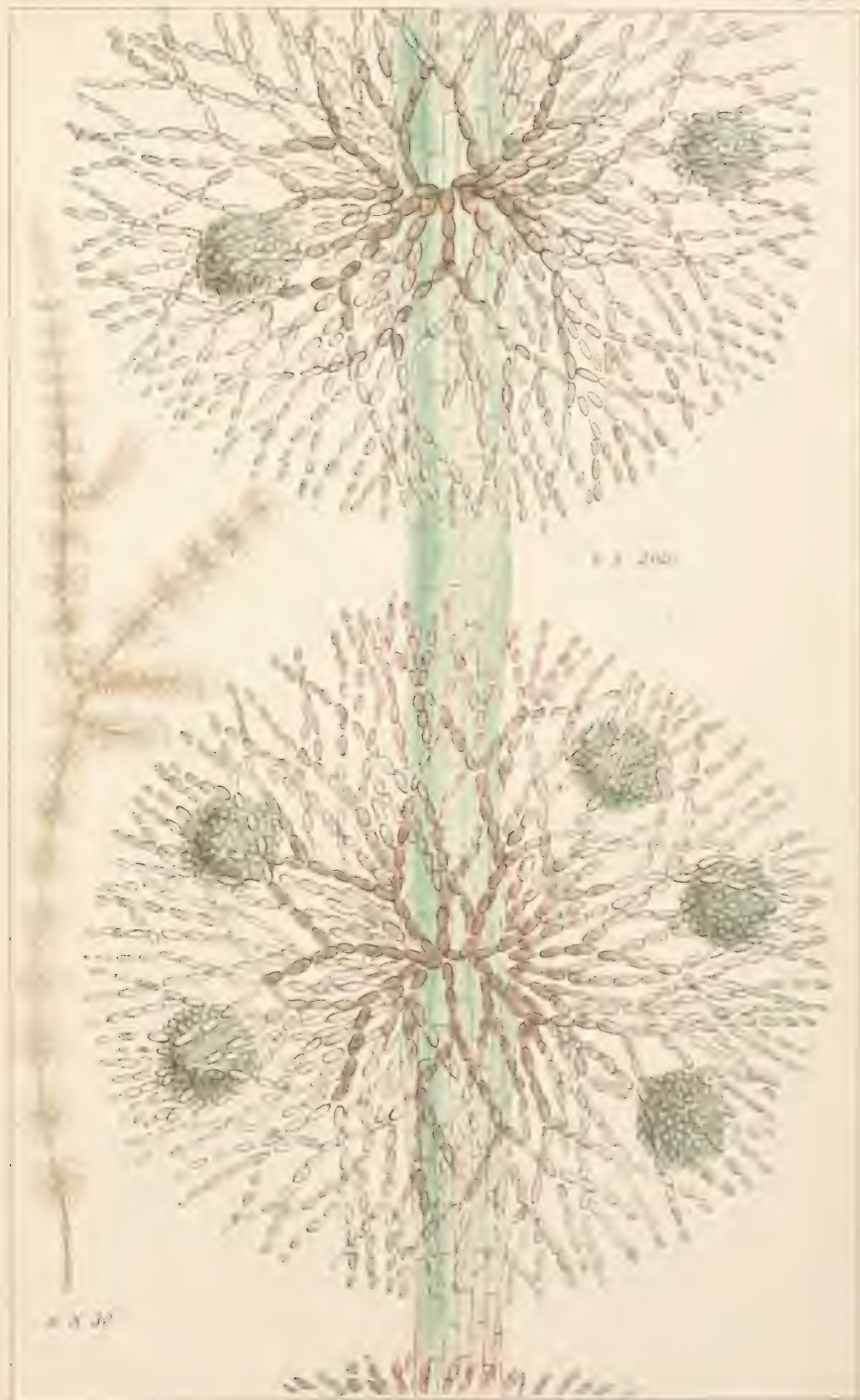


1. *Chroococcoides moniliformis* Kütz. 2. *Ulothrix* *sp.* Kütz.
3. *Chroococcoides* *sp.* Kütz.





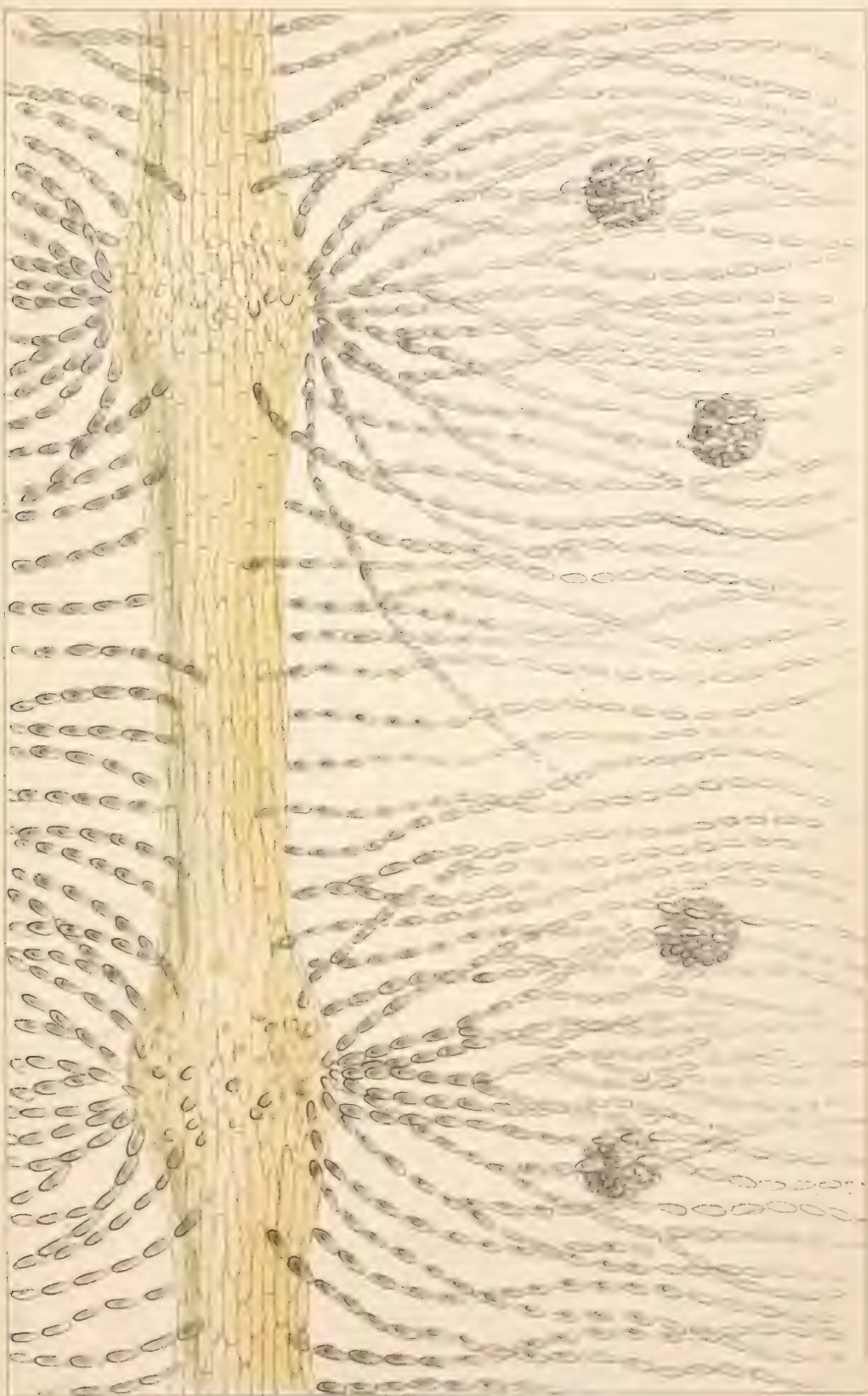
Gracilaria lemaneiformis (Setchell) Dawson



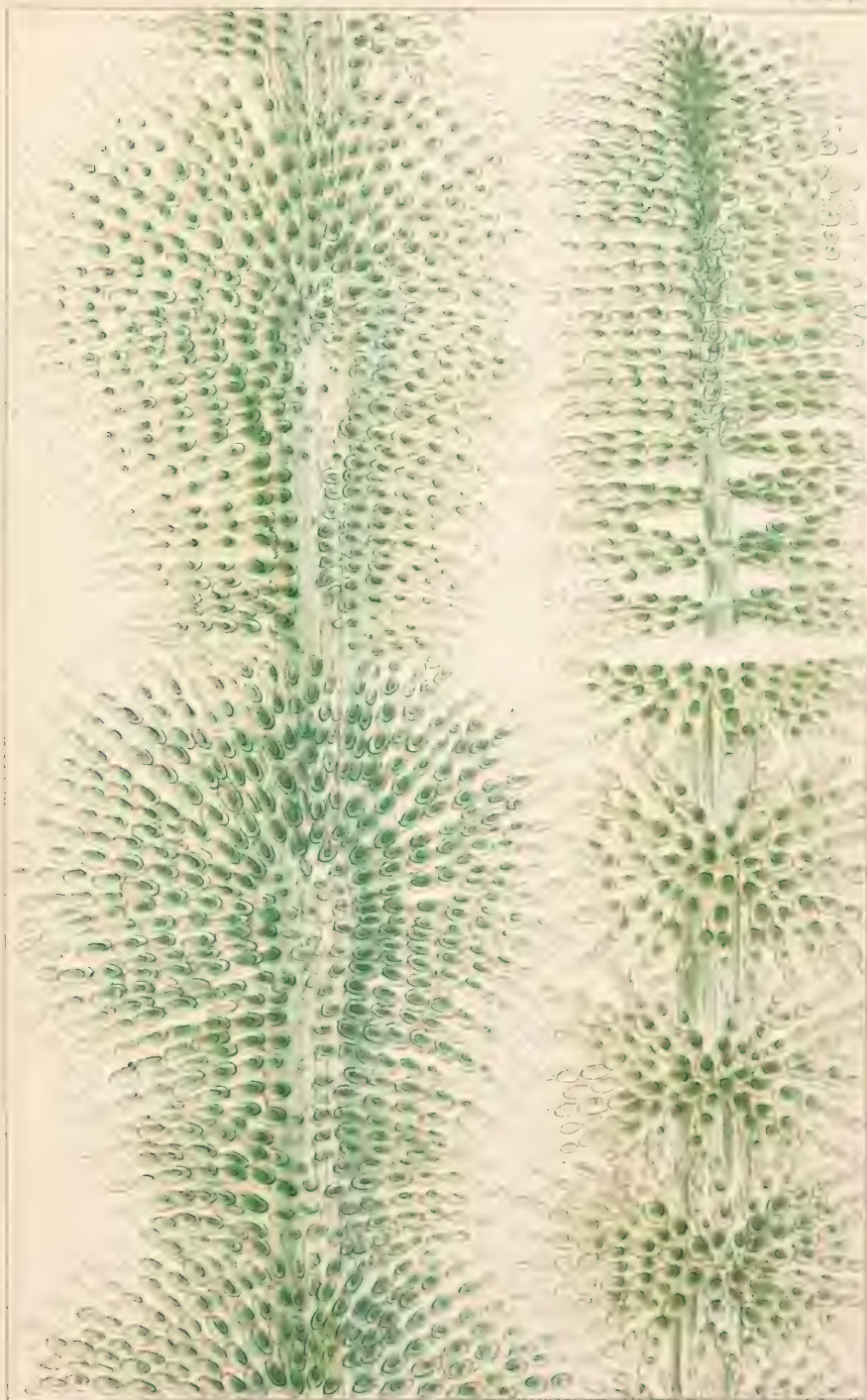
Batrachospermum moniliforme. Roth. var. *pulcherrimum*. Bory.



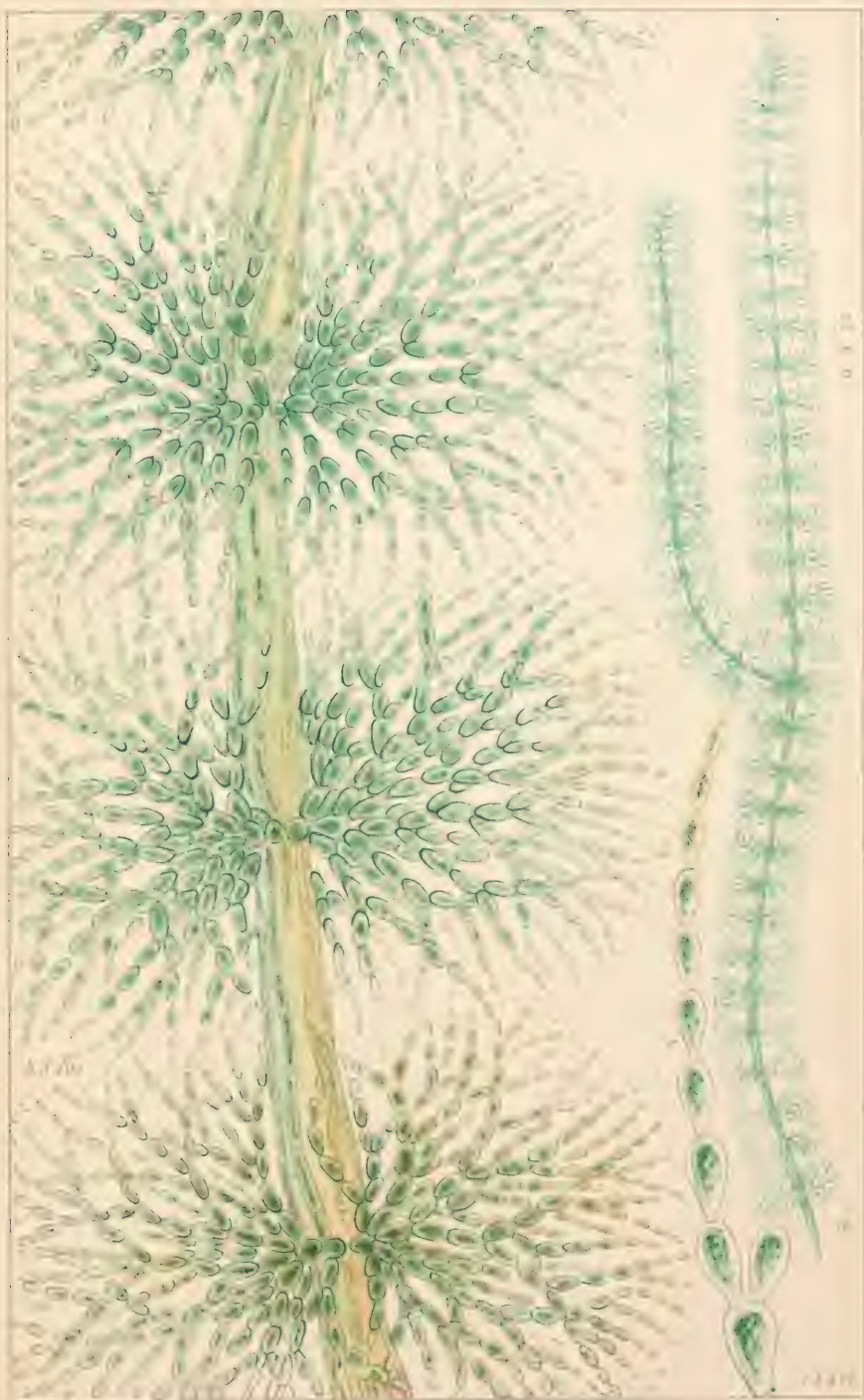
Batrachospermum moniliforme. Roth. · var. *proliferum*. Carm.



Batrachospermum moniliforme. Rotk. var. *confucium*. Hass. '1



Batrachospermum moniliforme. var. *Boltoni.*



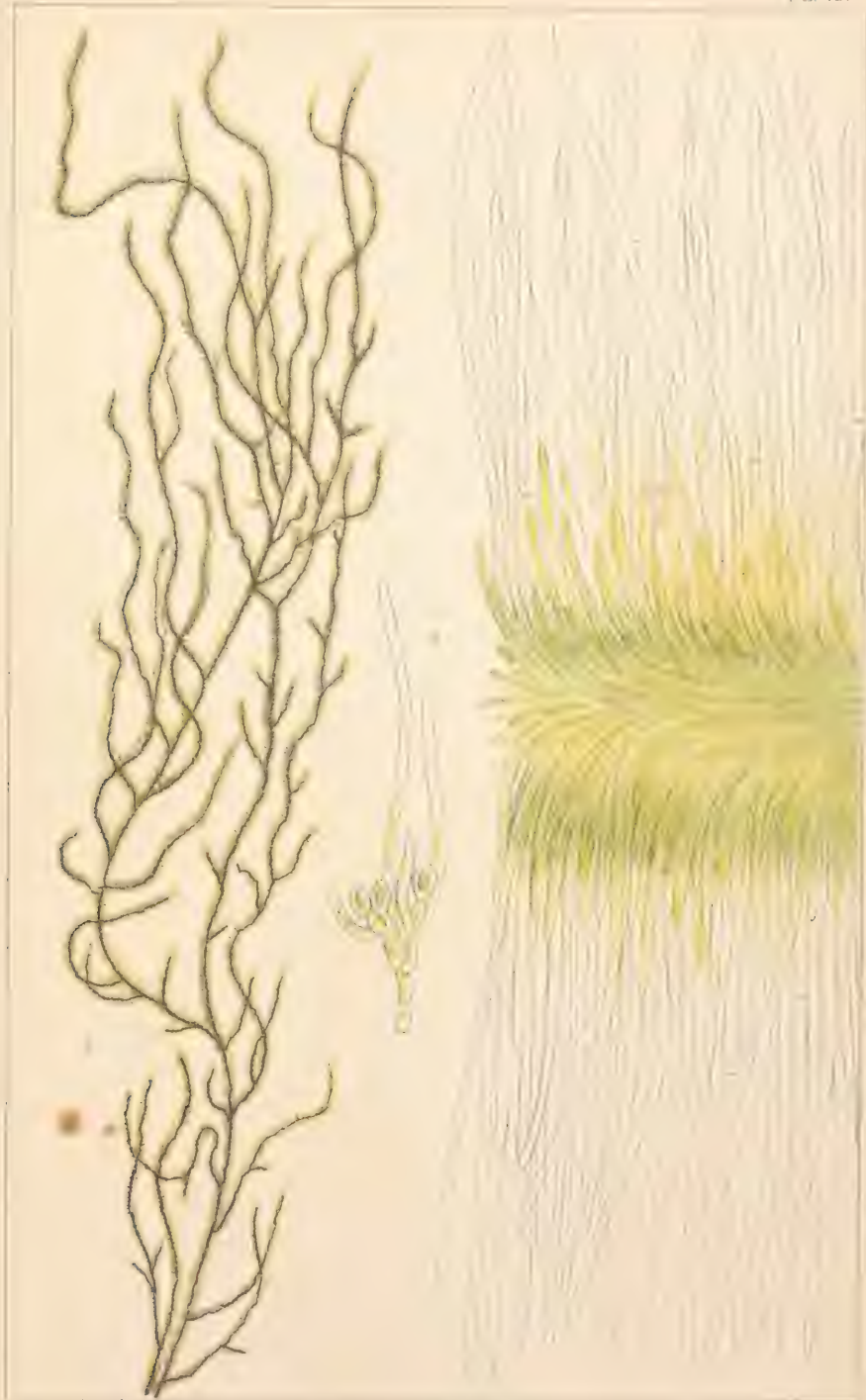
Batrachospermum vogum. var. *iteratophytum*.



1. *Batrachospermum atrum*. Harvey.

2. *Batrachospermum Dillenii*. Bory.

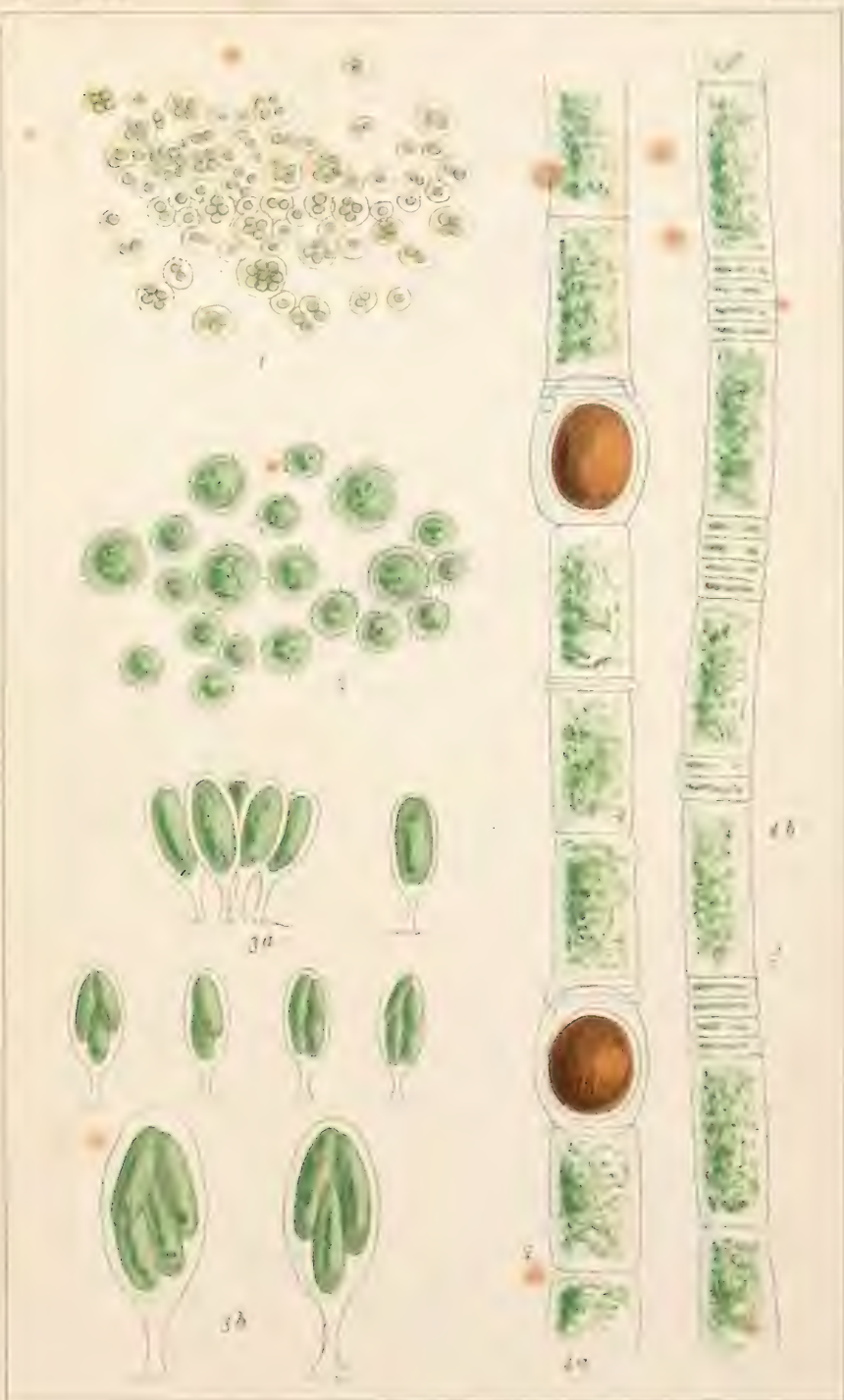


*Thorea ramosissima*. Bory.



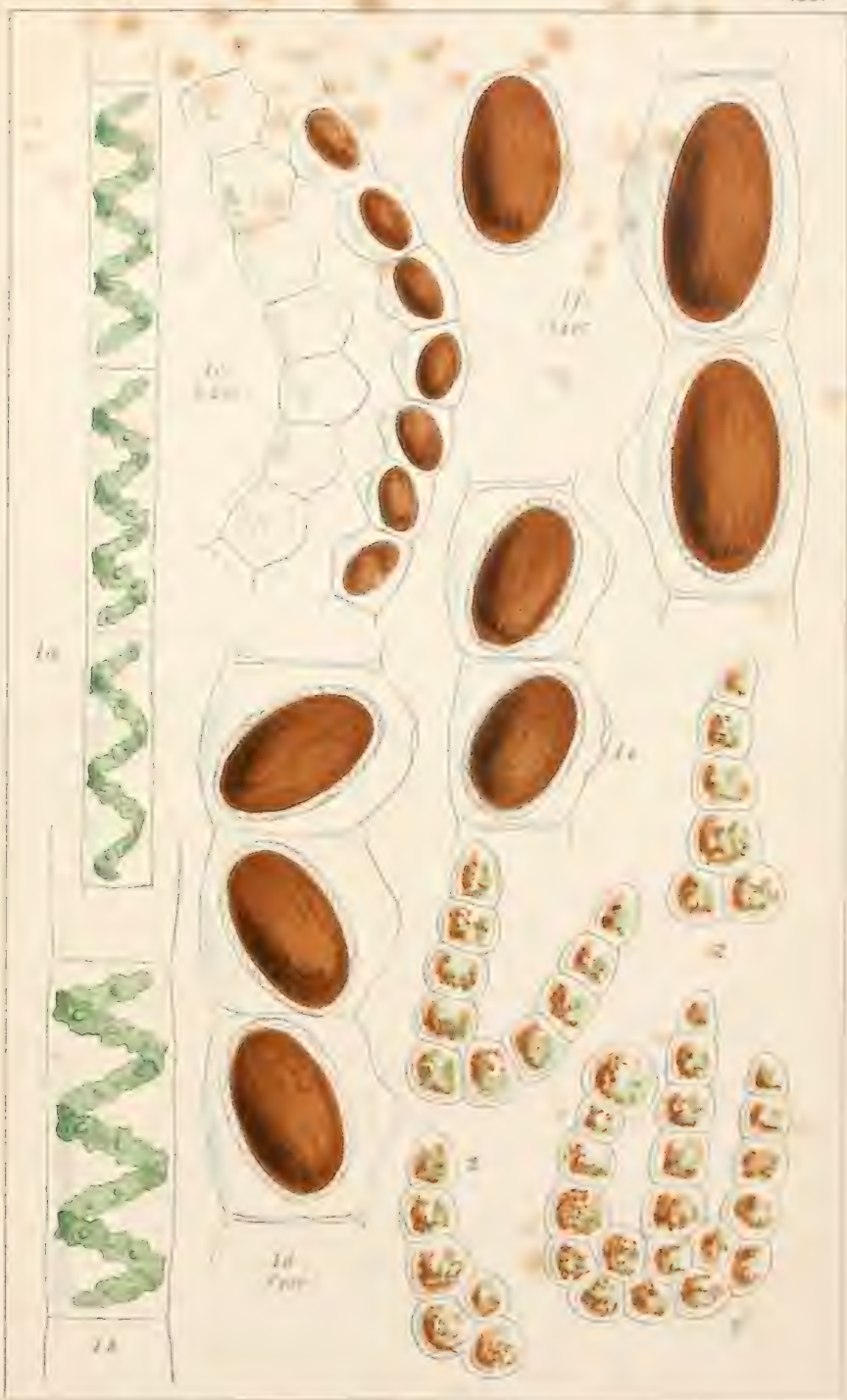
1. *Lemanea fluviatilis*. Ag.2. *Lemanea torulosa*. (Roth.)





1. *Pleurococcus bituminosus*, Bory. 2. *Pleurococcus vestitus*, Rein.
 3. *Dactylococcus Debaryanus*, Rein. 4. *Edogonium capilliforme*, Kütz.



1. *Spirogyra velata*, Nordst.2. *Chroolepus umbrinum*, Kutz.

